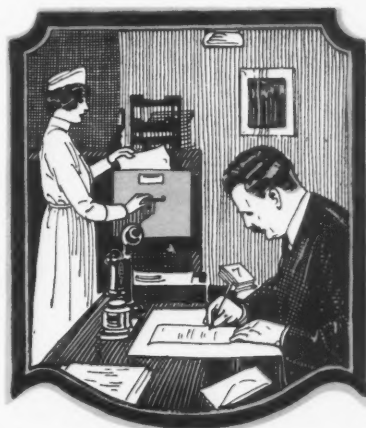


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THE Canadian Hospital

A Monthly Journal for Hospital Executives



Toronto, Can.

The Edwards Publishing Company

January, 1932

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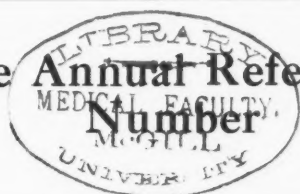


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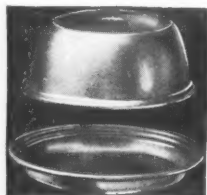
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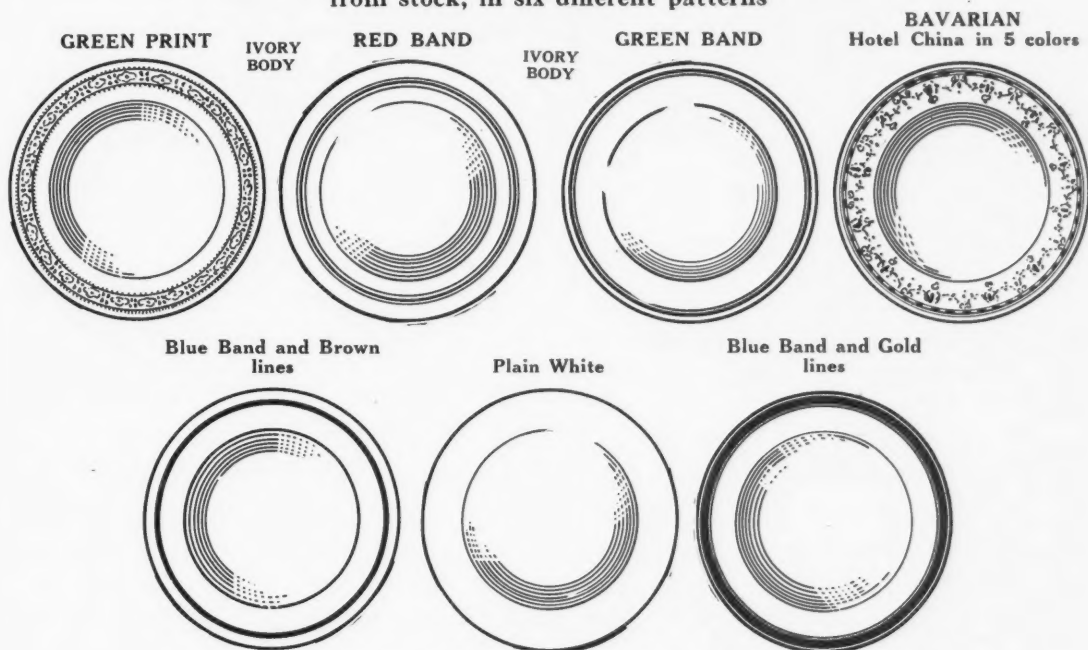
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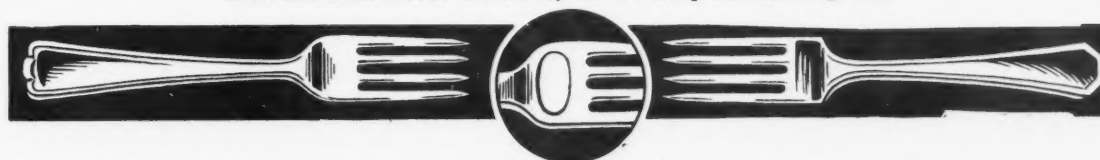
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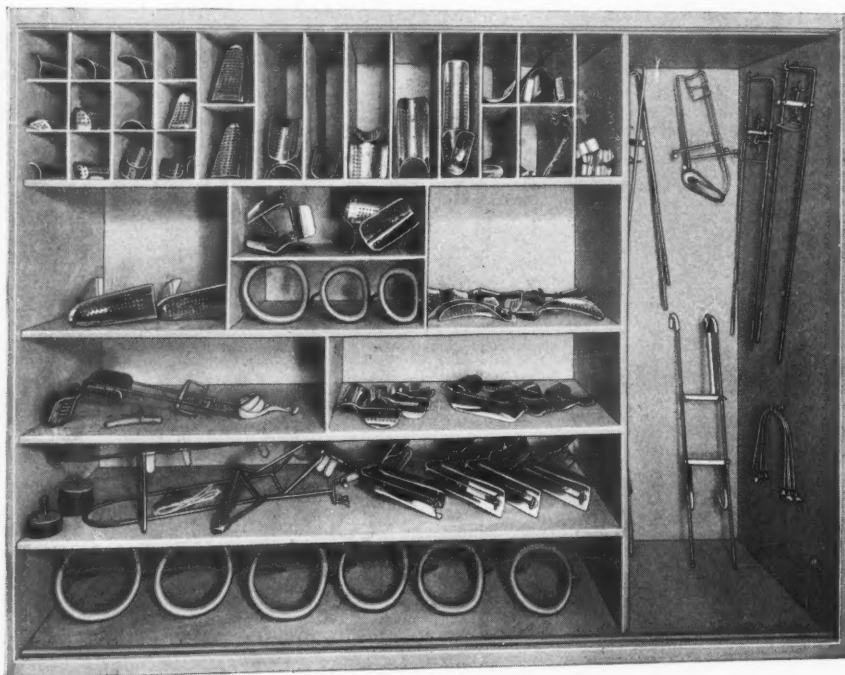


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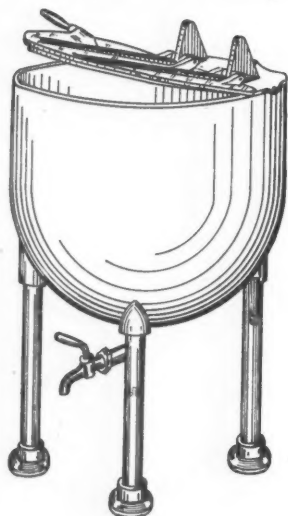
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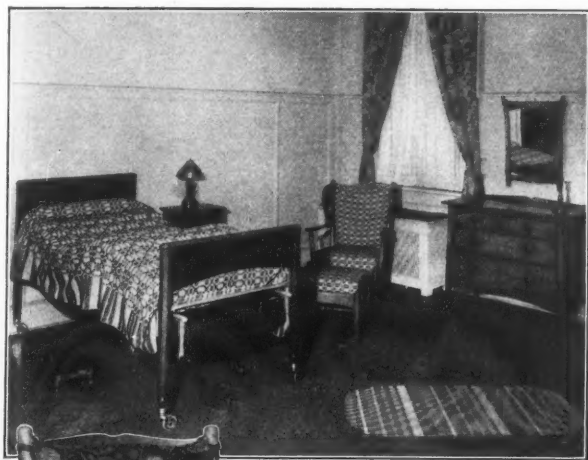
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Above: A typical private room furnished with Stickley "Pilgrim" furniture.

Below: A close-up of one of the armchairs.



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By all means investigate the Stickley line before investing in furniture. It represents the result of ten years' intensive specialization in the manufacture of furniture for hospital use.



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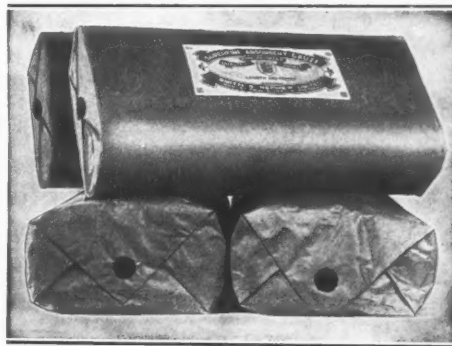
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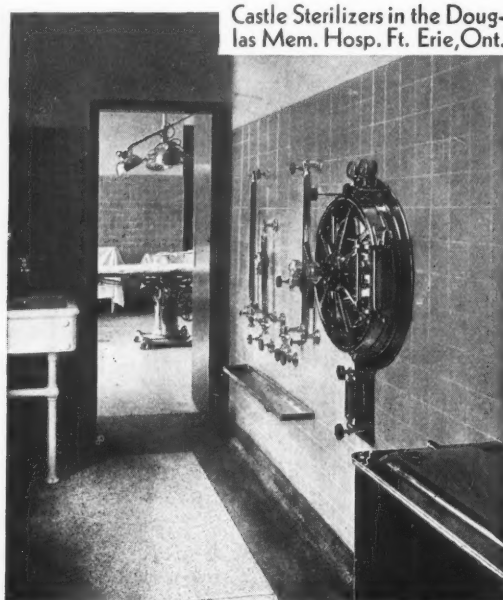
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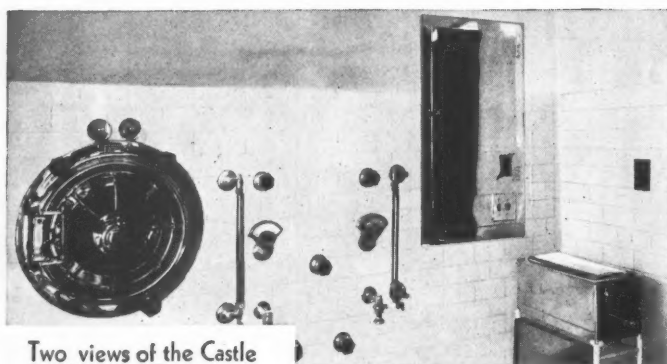
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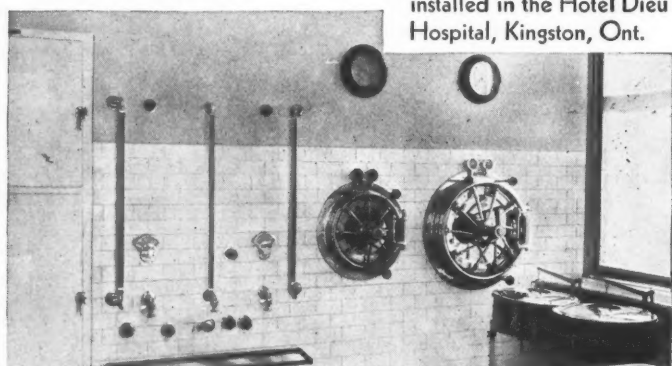
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Please refer to THE CANADIAN HOSPITAL when writing

An Outstanding Hospital of the Year

THE ST. JOHN GENERAL HOSPITAL

ST. JOHN, N.B.

By R. H. GALE, Business Manager

UNUSUAL in many respects is the story of the expansion of hospital facilities at Saint John, N.B. The usual way for a small community to establish a hospital or to replace an existing building with a modern structure is for a local group, frequently without hospital experience, to go ahead as quickly as possible, planning and executing according to their whims and desires, without considering whether or not any experienced help existed or was available.

St. John, with an accessible population of approximately 60,000, has been served by three hospitals, including the old General Public Hospital of 150 beds. The other hospitals, one for private patients, and the other for maternity service, brought the total beds available to 260, which was about 100 short of accepted standards.

Greatest credit for the movement that resulted in the erection of the new Saint John General Hospital building is given to Dr. Walter W. White, F. A. C. S., an outstanding surgeon, trustee of the hospital, and for some years mayor of St. John. Through his contact with the American College of Surgeons and its hospital activities, his Worship immediately appreciated the need for expanding the hospital facilities of the community and especially of constructing a building that would be erected with a consideration of the needs of St. John and of economy of operation, as well as practicability. Mayor White turned to the American College of Surgeons and to other organizations for advice, and adopted the suggestion that an experienced person make a survey of the community to determine the size and service features of the building, and that competent advice be obtained in planning and equipping the structure. Dr. White was ably assisted by Dr. G. A. B. Addy, another trustee of the hospital, in the preliminary planning of the entire project, and in the determination of various features of the construction programme, as submitted by the consultant, Dr. William H. Walsh, Chicago. Dr. Walsh was retained to make a study of the community and later to act as consultant in the planning and equipping of the new building, of which Pond & Pond, Martin & Lloyd, Chicago, were architects, and Alward & Gillies, St. John, associate architects.

As a result of the survey, hospital authorities decided to erect a building with accommodation for 350 patients, including a children's department, maternity department, numerous private rooms, dispensary, and expanded or new services, such as metabolism, physical therapy, etc. These departments were suggested as a result of indications in the survey of their inadequacy or utter lack under old conditions. Modernization of nursing educational facili-



New home of Canadian institution is designed to provide adequate facilities for health needs of community and to assure economic operation.



ties in connection with the existing nurses' home, which is adequate, to avoid the expense of sending students to Montreal for affiliation, also was recommended, and the addition of new departments in the hospital was decided upon in great measure because of this latter situation. The nurses' residence, however, is being deferred until the hospital has been in operation for a time.

Some of the features of the old building which made its remodeling

or continued use impractical: Ceilings 14 to 16 feet high; about one-fifth of cubic contents represented by central rotunda, a dangerous fire hazard; lack of space for provision of many modern devices, as may be imagined from the fact that the original building was in use for about 65 years; no suitable private rooms; no suitable accommodations for maternity patients; insufficient and poorly equipped nursing service rooms; inadequate refrigeration.

The new building was planned to remedy these and other defects and to assure economical operation and maintenance. It also was planned so that certain special departments, such as children's, maternity, etc., could be utilized for general patients, through the removal of the departments to special buildings to be erected later as demands warranted.

It must be noted that the laboratory which is used by the provincial health department was especially located with this use in view.

Another unusual feature was the fact that the original site of the hospital was so well adapted that the new building has been erected upon it, hospital facilities in the interim being furnished in the nurses' home.

The following is a detailed description of the building, planned and constructed under the conditions described in the foregoing:

The Entrance Floor

Because of the contour of the site the entrance floor has adequate daylight from practically all directions, and in some places is considerably above ground. In the centre of this floor at the north end are located the general kitchens, arranged so that food may be quickly distributed to the whole institution by any method that may be desired. The refrigerators, cold storage, vegetable preparation, butcher shop, bake shop and help's dining rooms all adjoin the kitchen.

The east wing of this floor is devoted entirely to the service of food, there being a large nurses' dining room, a special nurses' dining room with a cafeteria service between, a staff dining room, the special diet kitchen and dietitian's office, and a suite with lockers for special nurses.

The west wing is occupied by the emergency receiving and casualty department, located close to the ambulance entrance; two emergency wards; the out-patient department, with a large waiting room; pharmacy; social service rooms; a dental department; surgical dressing rooms; and special rooms. Out-patients may enter without coming through the main lobby of the hospital. A driveway separates another section of this wing, which is reserved for the autopsy room with its cold storage facilities, the animal room and runway, and storage for the laboratory department.

Out-Patient Department

Provision has been made for all of the necessary accommodations for the examination, diagnosis and treatment of the poor who cannot afford to pay a private physician. This department is also intended to be used as a diagnostic clinic and examining and waiting rooms have been provided for private patients. The practice of having an annual physical examination is gradually extending and because of the necessity for laboratory tests, X-ray service and the use of a considerable number of costly technical appliances and instruments of precision which the average physician cannot afford in his private office, the most logical place to properly conduct this examination is at the hospital where there are constantly available not only all of the apparatus needed, but also the nursing and technical service and personnel.

Main Floor

The main floor contains the upper part of the lobby. Adjoining this by a central staircase is the main entrance hall, and in the main part of the central building are located the offices of the superintendent of nurses and her secretary, nursing school office, women's toilet, and on the other side of the hall, the admission department for private patients, with an examining room adjoining.

The east wing contains a reception room, a staff room with lockers and toilet facilities, a large library, record room, staff conference room, quarters for ten interns, the office of the director, his secretary, an office for the assistant director, and the general office.

In the west wing are located the X-ray department, physical therapy department and a very extensive laboratory. Immediately adjoining the entrance hall on this floor is another reception room.

It was agreed that the laboratory of this hospital should be designed in such a way as to meet the requirements of the provincial government, and arrangements were concluded with the province to arrange for provincial work to be done in this laboratory. There is a large bacteriological and pathological laboratory, a media kitchen, a special research laboratory, a museum, office of the pathologist, with his private laboratory, and an office for his secretary. On the other side of the hall there are a biochemical laboratory, toilets and locker rooms for men and women, and, in common with the X-ray and physical therapy department, a large reception room for these services.

In the same wing on the main floor there is a physical therapy department consisting of four rooms for the various electrical appliances, a special whirlpool bathroom, a massage room, a muscle training room, and examining room. Adjoining is a room for metabolism determinations.

Articulating with the laboratory and physical therapy departments is the X-ray department, providing a viewing room, radiologist's office and examining room, a dental room, separate rooms for radiographic and fluoroscopic work, with dressing rooms, operators' booths and generator rooms between; a dark room and a special room for the deep therapy apparatus.

Typical Ward Floor

In the centre of the lobby on each of these floors is a supervisor's station, and immediately opposite this, a visitors' waiting room. Each floor is provided with a nurses' retiring room, a room for flowers, a service hall, and a floor kitchen service to which runs the dumbwaiters from the kitchen. Also adjoining is the service elevator, upon which food trucks may be transported if desired.

In the central service section of each floor on one side is a bathroom with toilet adjoining, which may be used either for cleansing or therapeutic baths, and on the other side of these wings is located a large linen room adjoining the service hall. In the central wing of each of these floors there are two three-bed wards specially designed for isolation, if needed. Otherwise, they may be used for semi-private patients. In order to provide additional isolation facilities which may be required, the wing is designed with a cross hall at the far end so as to leave a small ward as separate units. This hall leads into a large sunparlor which is located on each wing on all floors. The wards are all three and four beds, although practically all of these wards can accommodate an extra bed.

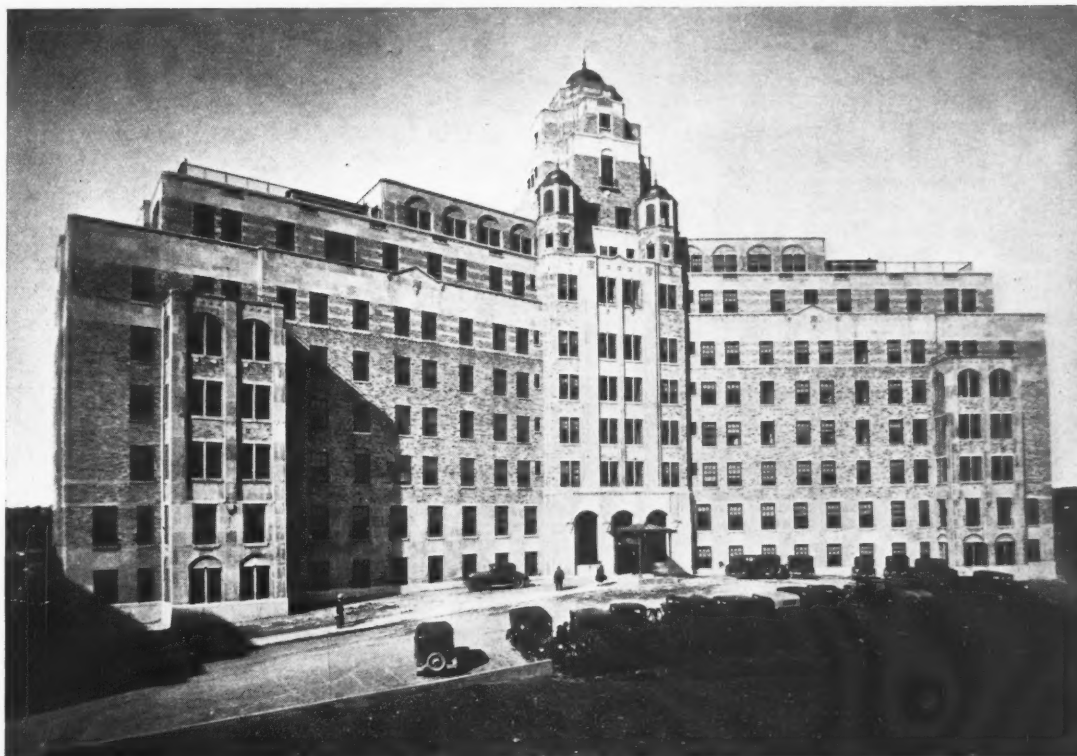
Private Patient Floor

The central service facilities of the private patient floors are similar in all respects to those of the typical ward floors, and the two isolation wards of three beds each opposite the supervisor's station on the main lobby of the floor have also been duplicated on this floor for such use as might be found desirable. Because of the acute nature of the diseases to be treated in this hospital, and the short stay of the patient, and also that bathtubs are not absolutely essential, they have been omitted from private rooms. Each room, however, has its toilet and wash bowl with a built-in cabinet for the patient's utensils. On each wing of the private patient floor there are four semi-private two-bed rooms, ten private rooms, and one three-bed ward, thus providing for 21 patients in each wing, or 42 on a floor. As on all other floors, there is a central visitors' room opposite the supervisor's desk, and a sun parlor on each wing accessible from a cross hall, dividing the end rooms of the wing so that they may be used for isolation purposes.

Obstetrical Department

One wing is reserved for obstetrics and the department is so designed as to be entirely separated from the surgical division, which is located on the same floor in another wing. Provision is made in the obstetrical department for three delivery rooms and four labor rooms so that the institution will be able to handle any volume of work.

In this same department two wards have been provided for post delivery cases; there is also a preparation room and an infant's examining room. A suite of rooms is set aside at the far end of this department for the obstetricians, where a bed is provided for a doctor who may have to remain over night; a suitable sitting room, showers, lockers and wash basins. The department is provided



THE ST. JOHN GENERAL HOSPITAL St. John, N.B.

The new 350-bed St. John General Hospital is a masterpiece of planning and construction. It is equipped throughout with the finest appliances procurable; its furnishings are in keeping with the modern trend toward home-like surroundings.

DR. WILLIAM H. WALSH, Hospital Consultant.

POND, POND, MARTIN & LLOYD, Consulting Architects.

with utility room facilities, sterilizing equipment, scrub rooms for obstetricians and other modern conveniences.

Surgical Pavilion

In this pavilion there are three major operating rooms, a urological operating room, a fracture room—between the two latter there being provision for X-ray apparatus; three minor operating rooms, two anaesthetizing rooms, utility rooms, drug room, sterilizing room, and, as in the case of the obstetrical pavilion, a suite of rooms for the accommodation of surgeons, providing a sitting room, shower, lockers, wash bowls and other facilities. Located in the centre of this floor between the obstetrical and surgical pavilion is the large nurses' workroom and the pressure sterilizers, which will serve both of these departments as well as all other departments of the hospital. Also in the central wing there is a small laboratory where tissues may be examined during the course of operation, or other pathological work be performed. There are also a rest room for nurses, nurses' lockers, and, although very little food will be served on this floor, a well equipped diet kitchen.

Maternity Floor

This floor is to accommodate the mothers and infants after delivery, and consists of semi-private rooms, private

rooms with bath and toilet facilities, and wards of three and four beds. The ward accommodations are in one wing and the private and semi-private rooms in the other, so that there is complete separation. The nursery for all infants is located between the two wings, and is provided with nurses' workroom, an entrance robing room, infants' bath, a kitchenette, and modern facilities for caring for infants.

Adjoining the nursery is a premature room which is to be specially heated and ventilated. The service facilities of this floor are very similar on the typical floors. Each pavilion has a sun parlor which may be used for waiting visitors or as smoking rooms for husbands visiting their wives. Each wing of this floor is divided at its far end by a cross hall which provides complete isolation for the rooms on the far end; thus, whenever it becomes necessary to isolate a mother these rooms may be used for that purpose. The whole maternity floor will accommodate 45 patients in the rooms and wards, and the nursery is of sufficient capacity to care for any number of infants which may be desired.

Children's Floor

In order to secure roof space for sun parlors, the children's floor has been placed upon the top floor. The

central service facilities of this floor, while smaller than on other floors, are similar in most respects. Immediately opposite the elevator hall is the observation ward of six beds, each cubicled. Here will be placed each patient when admitted for such time as may be necessary to determine whether or not a child may be suffering from a communicable disease. The ward will be under complete isolation technic, having its own entry and exit, baths, toilet facilities, and kitchen provisions, and anyone entering the ward will be obliged to put on a gown in an entry hall on the side of the ward.

Each wing of the children's floor has provision for one five-bed cubicled ward, two four-bed cubicled wards, one three-bed cubicled ward, and one one-bed ward for isolation purposes. Each wing has a sun parlor, play room and a considerable roof space for outdoor playing in pleasant weather. A supervisor's station is provided in each wing so that the wings may be operated independently in event of any infection. The total capacity of the children's floor normally will be 34 beds, although without very much crowding ten more beds could very easily be added.

This Heating System Laughs at Weather Fluctuations

The St. John Public General Hospital is equipped with the Dunham Differential Vacuum Heating System designed to maintain building temperatures at constant desired levels despite all weather fluctuations.

Physiologists have discovered that overheating decreases the rate of breathing, increases the heart rate, increases the burden on the regulating mechanism of the body, increases the susceptibility to colds and other respiratory diseases, and lowers the general physical "tone" or vitality.

Underheating has fewer harmful physiological results,

but it does cause discomfort. Fluctuating temperatures, in addition to being annoying, place a strain upon the membranes of nose and throat which tend to weaken their resistance to bacterial invasion.

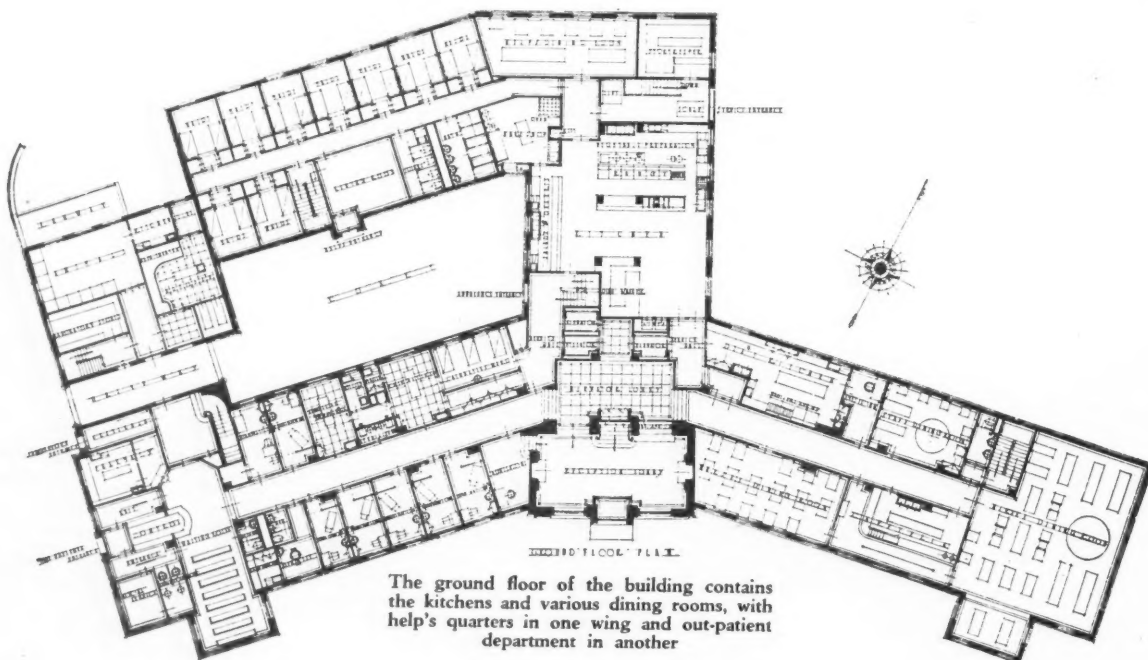
In no class of building is this relationship between heat and physical well-being so vitally important as in the hospital. Here, the environment must be comfortable, must place no strain upon depleted physical reserves of patients. Respiratory diseases must be guarded against. Nothing must be tolerated in either the human or mechanical services which would retard the patients' progress back to normal health.

The selection of a controlled steam heating system for the St. John Public General Hospital is indicative of the study which hospital management gives to the problem of providing constant, equable, healthful temperatures in the health institutions of to-day and to-morrow.

The control of the heat supply in this building is based upon the fact that the temperature of steam is dependent upon its pressure. When the pressure lowers, the temperature falls. By means of automatically controlled vacuum pumps, the pressure of the steam in the piping and radiation is reduced considerably below that of the atmosphere and the steam is consequently circulated at temperatures far below that of the ordinary kind of steam which comes out of the tea-kettle.

In mild weather the system circulates "cool" steam. In moderately cold weather it distributes "medium warm" steam, and during cold snaps it supplies ordinary "hot" steam. The temperature of the steam can be varied as weather conditions change. Thus there is little or no overheating during the fall and spring when a minimum of artificial heat is needed, and yet there is plenty of warmth on biting cold days.

The heating installation as installed by W. E. Emerson & Sons Limited, is under automatic control from central thermostats. The supply of heat is automatically balanced



The ground floor of the building contains the kitchens and various dining rooms, with help's quarters in one wing and out-patient department in another



MR. R. H. GALE,
Business Manager of the St. John Public General Hospital, St. John, N.B., to whom much credit is due for his successful administration during the trying period during which the new plant was under construction and the old hospital's equipment housed in temporary quarters.

St. John Public General Hospital Chose Metal Craft Equipment

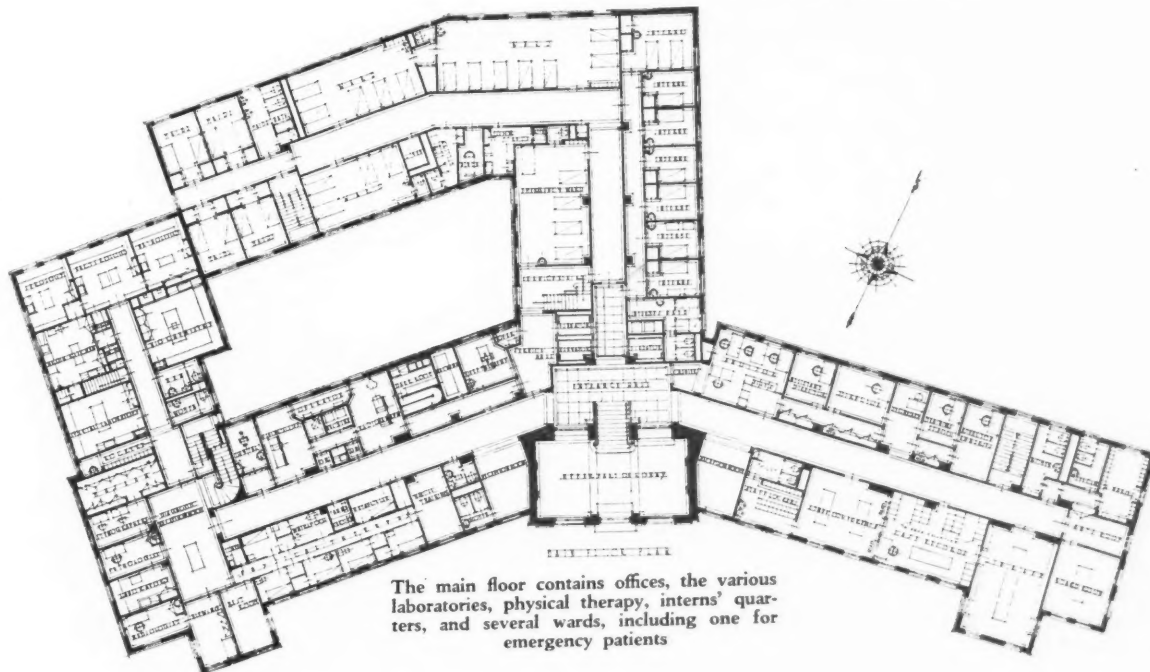
The excellent reputation of the Metal Craft Company of Grimsby, Ontario, is further proven by the fact that the newly opened St. John Public General Hospital chose much of its equipment from the Metal Craft line. As one of Canada's oldest and largest manufacturers of hospital equipment, this firm realized years ago the growing demands of Canadian hospitals as regards equipment, and neither time, expense, workmanship nor material have been spared to meet their exacting requirements. As a result, the Metal Craft Company enjoys the full confidence of hospital purchasing agents and administrators.

Among the items supplied by this firm to the St. John Public General Hospital are the following: Various types of nurses' desks, instrument tables, bedside tables, bed pan racks, linen trucks, shelf stands, bassinets, charts, stools, anæsthetizing tables, operators' stools, basin stands, irrigator poles, baby baths, examining tables, etc. These items met with the hospital's exacting demands for modern construction and durability, and were chosen for those reasons.

It is interesting—and significant too—to reflect that there are few, if any, hospitals in the Dominion of Canada, in which Metal Craft equipment is not used, if not wholly, at least partially. The conclusions are obvious.

There were 843 operations in the main operating room of the St. John Public Hospital last year, and 2,227 operations in the out-patient department.

In the X-ray department no fewer than 955 fluoroscopic examinations were made in 1931. Treatments numbered 688 and 7,111 radiographs were taken.



The main floor contains offices, the various laboratories, physical therapy, interns' quarters, and several wards, including one for emergency patients

Marshall Spring Mattress Chosen by Many Canadian Hospitals

Thirty years ago, James Marshall, a Canadian, invented and built the first of the now famous Marshall Spring Mattresses. Its entirely new and revolutionary construction has proven so scientifically correct that it is synonymous with comfort and durability. Today, Marshall mattresses are the choice in the leading hotels, hospitals, steamships and elsewhere where luxurious comfort is of paramount importance. Today, thousands of Marshall mattresses built from 20 to 30 years ago are still giving satisfactory service.

The secret of Marshall comfort lies in its hundreds of tiny springs, each in a separate cotton pocket, nested together to form a compact highly flexible spring centre, padded with thick cushioning of cotton felt or curled hair and covered with stout ticking. These springs can neither be felt nor heard; but each works independently to conform luxuriously to every curve of the body.

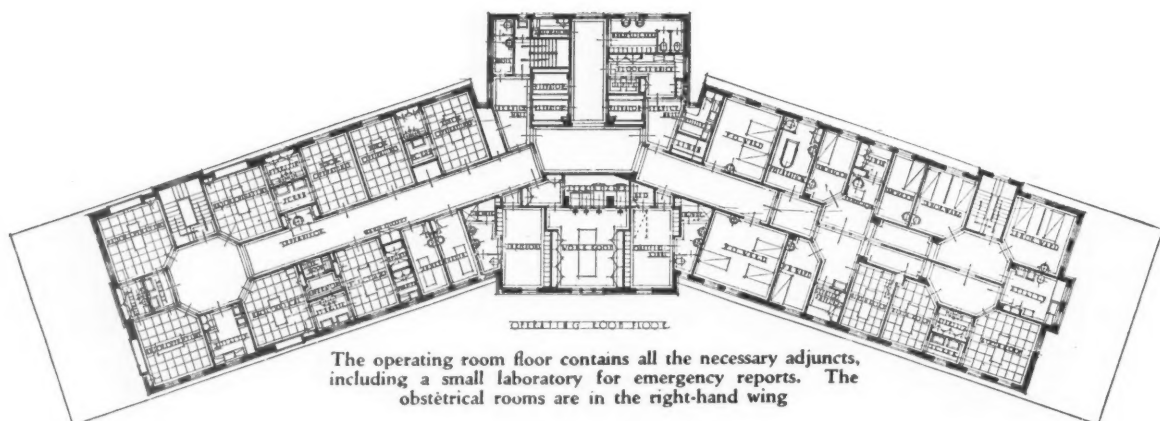
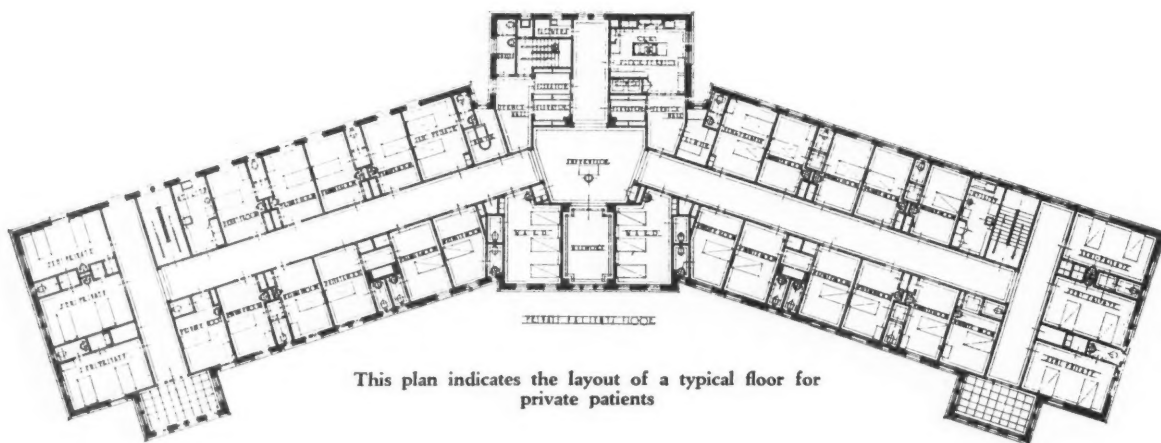
A softer resiliency is obtained from Marshall springs than is possible with other types of springs used in upholstery. The Marshall spring mattress cannot flatten out, get hard or lumpy. In other words the Marshall mattress *stays* comfortable. The success of the Marshall spring mattress is due not only to scientific design but high quality materials, skilled craftsmanship and experi-

ence are of supreme importance. For 30 years the Marshall company has specialized on spring mattress constructions. The experience and refinements of that 30 years of experience built into every Marshall mattress is a real guarantee of satisfaction. Moreover Marshall combines quality with economy.

This Plan Assures Uniformity in Probationers' Uniforms

SUPERINTENDENTS who still specify how probationers' uniforms are to be made, and who regularly find that their specifications, no matter how detailed, apparently permit of a varied interpretation, intentionally or otherwise, when such uniforms are inspected, will no doubt be pleased to hear of a plan devised by Corbett-Cowley Limited, Toronto, which meets this trying situation in a very effective way.

This plan was devised after a very exhaustive study of probationers' uniforms, which brought some very significant facts to light. It was found that superintendents who specified "blue" uniforms were surprised at the number of blues which met their eyes on inspection day. There was an equal lack of uniformity in skirt length, type of sleeve, collar and other details—despite the fact that such details were specified. Some hospitals bought the



THREE DEPARTMENTAL HEADS



MISS HELEN WETMORE,
Dietitian.

MISS MARGARET MURDOCK, R.N.,
Superintendent of Nurses.

MRS. MARGARET GUNN,
Matron.

In the hands of these competent members of the staff lie the administrative reins of some of the most important departments of the St. John Public General, St. John, N.B.

material from which these uniforms were made, cut it into lengths, shipped it to those whose applications for entrance to the training school were accepted, billed the probationers and kept the necessary records in connection therewith. Believe it or not, some nurses had not as yet paid for their uniform materials when they graduated! Many superintendents expressed themselves as anxious to be relieved of all the trouble which arose yearly in regard to probationers' uniforms.

It was these findings that led to the plan whereby the superintendent of nurses is freed of the work and worry concerning probationers' uniforms, a plan which assures the superintendent that such uniforms will be exactly what she wants and how she wants them, that they will be delivered to the homes of the probationers in plenty of time for laundering before leaving for the training school. It relieves many hospitals of the necessity of purchasing materials to make sure that a standard of quality and colour is adhered to, thereby making it unnecessary to tie up an investment of hundreds of dollars in order to obtain a good price.

So far as the probationer is concerned, the plan assures her of a well made and guaranteed uniform, designed and manufactured to suit the requirements of her training school. Moreover she is relieved of the necessity of either making the uniforms herself or finding someone else to make them, the latter plan being sometimes very costly, and the first usually unsatisfactory. What is still more important is the fact that she gets a custom made uniform at a stock price—a wholesale price on a retail quantity. Sometimes she actually pays for the finished uniform less than the material alone would have cost in the stores.

The plan completely eliminates any work or worry in regard to probationers' uniforms so far as the superintendent is concerned. All that is required is her sanction that probationers purchase their uniforms through this manu-

facturer. Samples of material and workmanship are submitted for her approval until such time as the finished garment satisfies her in every way. She is then furnished with self measurement order forms and self addressed envelopes, which are sent out by the training school office to the accepted probationers. On these order forms with measurement chart are recorded the individual measurements of the probationer, who is herself responsible for their purchase price. The uniforms are sent direct to the probationer at her home, and in the case of most coloured cloths, they are accompanied by an unconditional guarantee against fading and running.

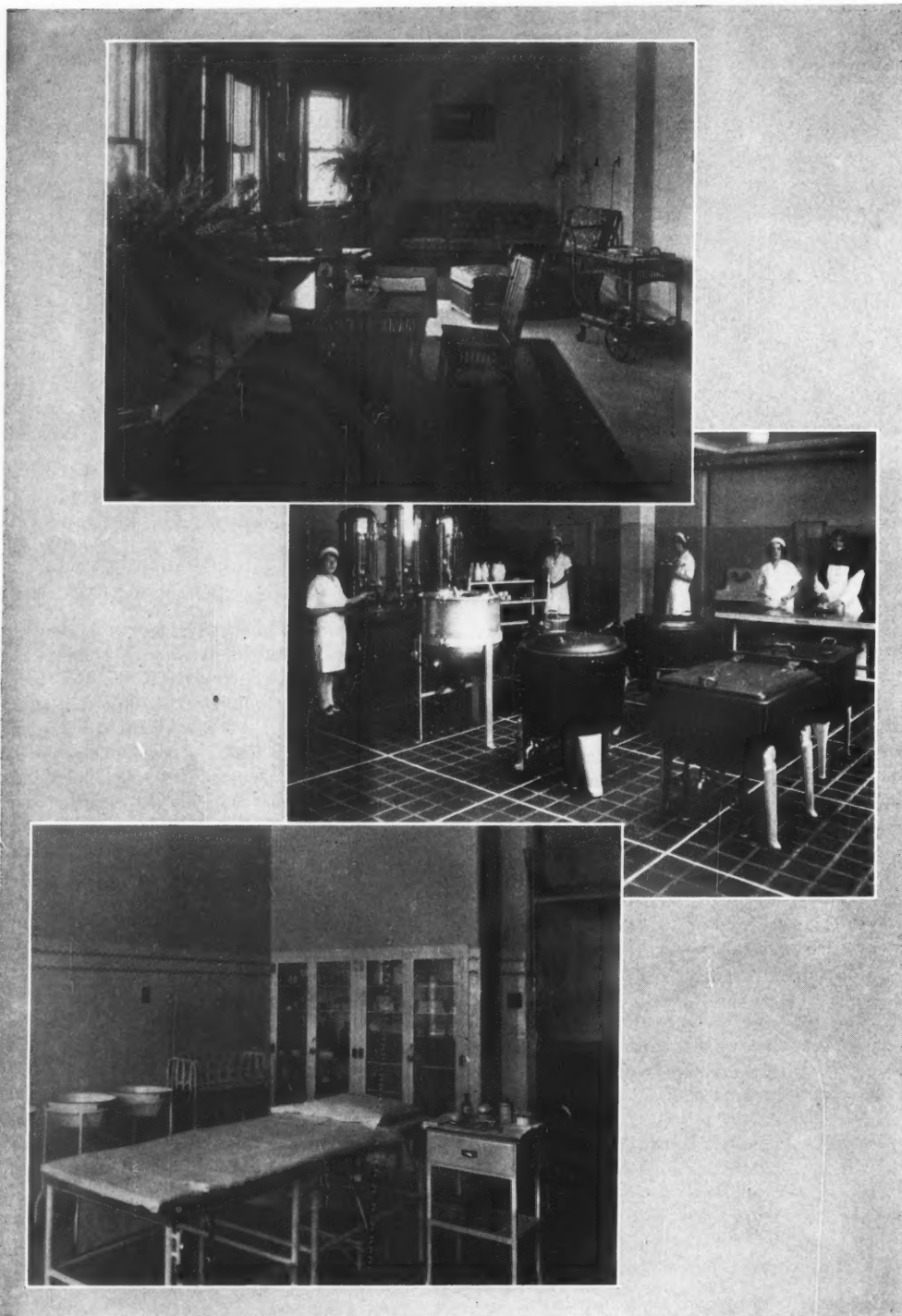
In view of the responsibility of which the superintendent of nurses who uses this plan is relieved, there can be little wonder that an increasing number of hospitals are making use of it. Corbett-Cowley Limited will be pleased to answer any enquiries and furnish samples of cloths suitable for probationers' uniforms upon request.

Montreal Firm to Handle Acid Proof Stoneware

Canadian Stebbins Engineering and Manufacturing Co. Limited, 609 Drummond Bldg., Montreal, has been appointed sole Canadian representative of the United States Stoneware Company, of Akron, Ohio. This firm, which is the oldest manufacturer of guaranteed acid proof chemical stoneware on the continent, produces a complete line of acid proof chemical stoneware including laboratory equipment, X-Ray tanks, solution jars, trays and pans.

SHAWINIGAN FALLS, P.Q.—The new Ste. Therese Hospital was opened on November 16th. This is a 100-bed institution with accommodation for 75 medical and surgical patients and 25 chronic and infirm cases. The cost was in the neighbourhood of \$450,000. The hospital is administered by the Grey Nuns.

ST. JOSEPH'S HOSPITAL, SUDBURY, ONT.

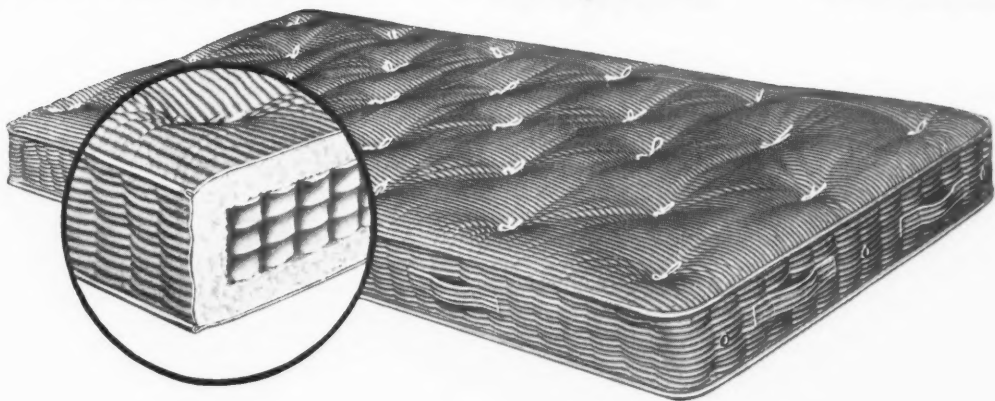


Top—Here is an attractive corner of the Maud Cook Solarium situated on the second floor and used by convalescent maternity patients.

Centre—Delicate appetites are stimulated by the tasty meals prepared in this splendidly equipped kitchen carefully manned by a capable staff.

Bottom—No detail of construction or equipment has been overlooked in the labour room of St. Joseph's Hospital, Sudbury.

The Marshall "Hospital" Mattress



CHOSEN BY SAINT JOHN GENERAL HOSPITAL

THE choice of the Marshall Hospital Mattress for this fine new Hospital, the largest job in 1931, is outstanding evidence that Marshall Spring Mattresses are most suitable for Hospital use.

The Marshall Hospital Mattress combines all Marshall features, proven most satisfactory over the past thirty-one years, and special features to meet Hospital requirements.

Its popularity is indicated by the impressive list of Hospitals who have purchased this mattress in 1931. Among them are St. Joseph's Hospital, London, Ont.; Victoria Hospital, London, Ontario; Parkwood Hospital, London, Ontario; Hotel Dieu, Kingston, Ontario; Kingston General Hospital, Kingston, Ontario; General Hospital, Belleville, Ontario; Ross Memorial Hospital, Lindsay, Ontario. Many other hospitals have been using Marshalls from ten to twenty-five years.

Such wide-spread popularity is outstanding evidence of merit and value. We feel sure you would find Marshalls a real source of satisfaction.

Consider These Features

Unusual Comfort—which alleviates that feeling of discontent usually so prevalent in Hospitals. Comfort that speeds the recovery of the convalescent patient. Your patients never become bedsores on a Marshall Mattress.

Durability—Marshalls stay comfortable. Many Marshalls are still in use and as comfortable as ever after fifteen to twenty-five years' service.

Economy—Without considering the value of their comfort, Marshall durability brings their cost per year exceptionally low, even at regular prices. **Special prices** given in consideration of the advertising value of their use in a Hospital, makes Marshall the cheapest mattress you can buy.

Features of Special Interest to Hospitals

Galvanized wire is used in the Marshall Springs in our Hospital Mattress to prevent any possible damage from rusting when the mattress is being sterilized.

Mashalls work perfectly on gatch frame beds. They bend easily to fit the bed in its various positions without damage to the mattress. It is not necessary to use hinged mattresses.

Marshall Mattresses will not slip on the bed. The Marshall will not spread. It can be made the exact size, and being the full size when new, will not slip down.

When you need mattresses, be sure you get a special quotation on the Marshall Hospital Mattress.

THE MARSHALL VENTILATED MATTRESS CO., LTD.

100 Lombard Street, Toronto 2, Ontario

Lachine, Quebec

Please refer to THE CANADIAN HOSPITAL when writing

The Trend in Hospital Construction on the North American Continent

By EDWARD F. STEVENS, F.A.I.A.
Stevens & Lee, Architects and Consultants,
Boston and Toronto

WHILE the type and character of all buildings have undergone a tremendous change within the last decade, no class of building shows so great a change as the medical institution, not only in architectural form but in the character of the plan, the size of the ward and the amount of utilities necessary to the proper hospital functioning.

Reliable sources would indicate that during the past two years 100,000 beds have been added to the hospitals of the United States and that more than \$375,000,000 have been expended in that period to house the patients.

The problem of designing the hospital to-day is approached from a somewhat different angle than a decade ago. No longer do we feel that there must necessarily be a separate building for medicine, for surgery, for obstetrics, for pediatrics, but a floor or a section of a great building is set aside for the different types of diseases with a plan so flexible that the medical department of yesterday may be the surgical department to-morrow.

With the advance in knowledge of true fireproof construction and the relatively slight amount of combustible material in the interior of a hospital it has seemed justifiable to increase greatly the number of storeys over that which has been acceptable in the past. In the cities the higher building has the advantage of getting better light and air. Also, a high building is relatively less expensive to construct than a group of low buildings.

The tremendous development of elevator service with the consequent saving of time has become a material factor in hospital planning, since saving of time means also saving of labour in operation.

The Out-Patient Department and the Isolation Section, instead of being housed in separate buildings, now occupy with safety part and parcel of the same multi-storey building.

In our modern hospitals the tendency is to allocate more space to medicine than was formerly the case and the introduction of new medical treatment rooms in the form of baths, electric treatment and all types of physiotherapy apparatus occupies larger areas.

The X-ray and laboratories are made available within the confines of this multi-storey structure.

Greater attention is given the out-patient section, developed to function with the diagnostic department, providing separate highly specialized and equipped departments for medical, surgical, dental, obstetrical and



Hospital construction shows a trend towards the multi-storey building, housing every department, including the isolation section. Wards are cut down to 4 to 10 beds, each bed in its own cubicle.



pediatric, cystoscopic and bronchoscopic and other branches, and connecting intimately with the physiotherapy, the X-ray and laboratory, and these make for ideal conditions in diagnostic work.

No department in the hospital has made more rapid strides and been subjected to more sudden and radical changes than the Roentgen-ray department and it is unwise to plan a new hospital without leaving plenty of room for this department to develop.

The severe, barren, forbidding exterior of the old hospital has given way to a studied architectural treatment, pleasing to the patient and the public. The small extra cost of a well designed exterior is more than repaid in its psychological effect on the entering patient and the visitor. If the patient can enter with the right impression of the institution, such impression reacts for the good of the patient's convalescence.

While the small hospital still occupies a large sphere of hospital activity in the United States and is functioning splendidly in hundreds of communities, the tendency to-day is for group or community hospitals where several towns or communities may join together to build a more complete plant, with better facilities than could be secured with the several small hospitals.

In the community hospital, a group of medical men from several adjoining towns can enjoy the privileges of more complete diagnostic facilities than could be expected in the smaller hospital units; e.g., one X-ray outfit, one physiotherapy department, one dental unit, and one laboratory would function for the several units, and a paid technician might care for the whole group. Likewise, one operating department and one sterilizing outfit would do the work for several operating units; and so with the heating, the kitchen, the laundry, etc., thus reducing the cost per patient for the running of the hospital.

Hospital Plan

But what of the interior or working plan of the up-to-date hospital? A glance at the plans of a few will show that the large ward has been cut down, that where formerly a hospital would have wards of from 10—30 beds, the new wards will be but from 4 to 10 beds; also that the tendency is for a greater number of utilities for better functioning, and consequently a smaller percentage of area occupied by the patient.

While the per patient cost of the hospital will be increased by reducing the number of beds to the ward, the

(Continued on page 26)

LIK-WID BRAND

SURGICAL SOAP DISPENSERS

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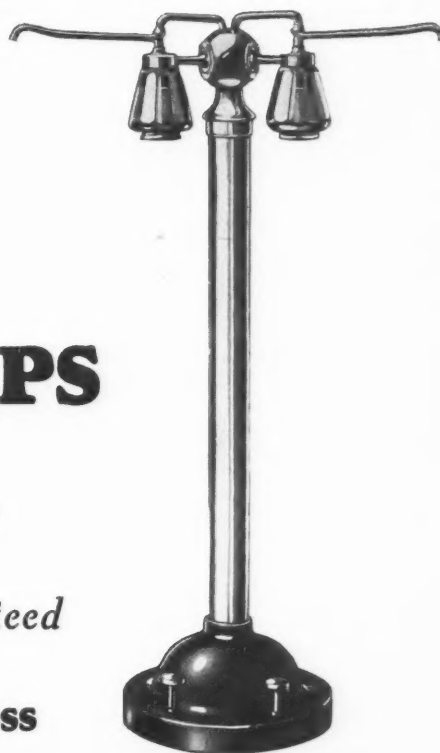
GREEN SOAPS

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*Unconditionally Guaranteed
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Cost Considerably Less



**Write, telephone or telegraph at our expense for prices
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G. H. Wood & Company LIMITED

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Please refer to THE CANADIAN HOSPITAL when writing

The Trend in Hospital Construction

(Continued from page 24)

convenience and privacy of the patient is so greatly increased that the larger expenditure is warranted.

The cubicle ward, with each bed in its own cubicle, is being used in many of the new hospitals. A popular type seems to be an 8-bed ward with each bed in a cubicle and this ward divided in the centre by a sub-sink for bedpan and patients' necessities. Such a unit (8 beds) works for economy in nursing as it is standard practice in many hospitals that one nurse can give service to four patients through the day and eight at night. A nurses' station in the corridor or in the ward is part of this 8-bed unit.

The cubicle ward is flexible for while giving privacy when privacy is wanted, by the introduction of a sliding panel in the cubicle wall, opportunity for sociability is afforded between patients, and with cloth screens across the foot of the cubicle absolute privacy is maintained.

Many of the larger medical institutions of the States are recognizing and providing for an intermediate class of patients or, as they are sometimes called, "Patients of Moderate Means," where the self-respecting independent citizen with limited means may, with the co-operation of the hospital staff, secure proper surgical and medical aid without excessive charge.

This intermediate or semi-private group of patients may be cared for in the better class cubicle ward, the two-bed room or smaller private room, and "group nursing" helps to lessen the expense to the patient and the hospital.

The introduction of greater toilet facilities is quite marked in the newer hospitals,—a separate toilet (W.C.) provided for each private room, or often times between rooms one toilet functioning for two rooms, with a bedpan washing device, keeping the bedpans entirely out of the corridors; the sink or service room being used as the nurses' work and supply room.

One will find in the private room as well as in the wards individual electric appliances—the nurses' call, the telephone, the radio connection, with wall plugs for the bedside lamp, the portable cardiograph machine or any electrical device.

The patients' interests are safeguarded with the provision of automatic, noiseless doctors' and nurses' calls, fire alarm, telautograph and every device to make the service more efficient, for the well-functioning hospital must be planned from the standpoint of efficiency in management and comfort of the patient.

The location of the utilities on the plan has much to do with the noise or quietness of the hospital, for a serving kitchen placed opposite a private room or ward would make the room or ward less attractive to the patient than if placed around a corner or at a distance.

In the new hospitals attempts have been made to minimize and absorb sound by the use of resilient floors such as rubber, linoleum, cork and asphalt. While for hygienic reasons heavy draperies may not be used, the breaking of all surfaces by recessed doorways tends to break up the sound waves.

Administration Department

We find this department usually placed at the main entrance to the institution, and here the architect is sometimes given a little more freedom to express himself in

architectural design and ornamentation. Ample space is allowed not only for what is actually needed, but for the effect of spacious treatment, and this entrance often extends through two storeys. Here memorial tablets may be placed, and comfortable seats, suitable hangings and decorative wall treatment provided.

The offices and waiting rooms are grouped around the entrance, with the trustees' room and library in a prominent place, also superintendent's suite, offices for business and for consultation.

No more marked change is noticed in the modern hospital than the change from the white and monotonous tone of wall colour to well-studied colour effects for wall and ceilings, for tile, for window drapes, for rugs and more homelike environment in furniture. Sometimes it is found that the sections of service such as private, intermediate or public are indicated by different shades of color of walls and tiles where used.

Operating Department

The size of the operating departments in the hospitals in the States depends very largely on the size of the operating staff. A 250 bed hospital may have 25 to 50 operating surgeons on the staff and when they all want to operate at 8 a.m. the same day a goodly number of rooms must be provided, manned and equipped.

In the study of recent hospitals we find the operating department located in nearly every quarter of the plan. In many of the smaller hospitals where the operating department is confined to a very few rooms, it is often found that less confusion exists if this department is located on the first or entrance floor, together with the administration department and the medical or physiotherapy departments, getting the working departments or "work shop" away from the proximity of the sick patients; while in the larger hospitals, where the department is of sufficient size to take an entire floor or goodly portion of a floor, a position at or near the top of the building, away from noise or dust of the streets, may be more advantageous.

In our country the amphitheatre operating room is almost a thing of the past except in intensive teaching hospitals and even then the old idea of the theatre is greatly modified and greater care given to the hygienic construction, though observation stands approachable from the rear of the room are often provided. The old skylight is rarely seen and we either have the direct north light or, in many cases, we omit natural light altogether, as it is found that the newer types of artificial light are more satisfactory than any type of daylight illumination, and windows are only used for ventilation.

The modern operating room contains in addition to an approved lighting system, positive and negative air, sterile water, ventilating and air conditioning, viewing cabinets for X-ray plates, metal floor strips for grounding against static electricity, spark proof electric switches, etc., etc.

The construction of the floors and walls will be found of nearly every building material and the colors ranging from white to black.

The nurses' work room, the real manufacturing plant for the department, we find of no mean size, for here the dressings are cut, made up, sterilized and stored. There is an increasing tendency to place this department away

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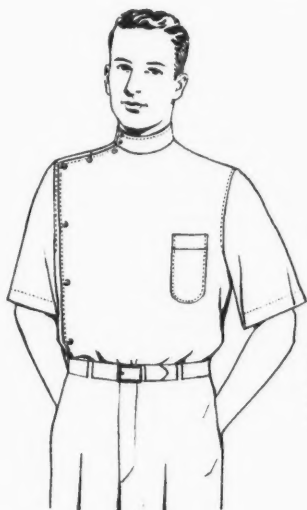
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HOSPITAL APPAREL

To Suit Every Need



Style No. 175

HOUSE DOCTOR'S SHIRT

Made of the best quality bleached shirting, our No. 65. Price \$19.50 per doz.

SURGEON'S OPERATING COAT

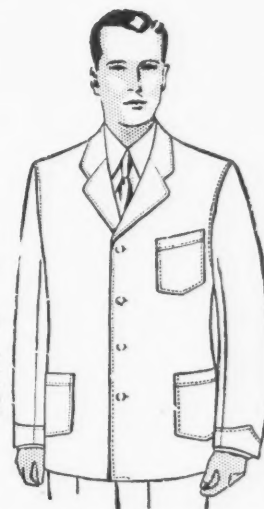
Style No. 132

Made of Bleached Marble Head, closed down front with tie tapes. Price \$15.00 per doz.

**SURGEON'S OPERATING PANTS**

Style No. 311

Made of Bleached Marble Head, pyjama style, draw tape at waist. Price \$15.00 per doz.



Style No. 113-79

HOUSE DOCTOR'S COAT

Made of bleached drill, this coat is neat and serviceable. It has the lay-down collar, three pockets, detachable buttons and pointed cuff on sleeve. Price for the coat, \$25.50 per dozen. Pants to match, \$25.50 per dozen.

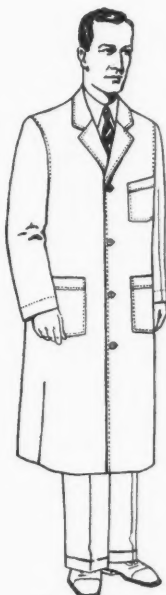


Style No. 105-1

ORDERLY'S COAT

Made of good quality bleached duck, plain white, medium high collar, three pockets, 5 detachable buttons, neat pointed cuff on sleeve. Price \$18.00 per dozen.

All garments unconditionally guaranteed, as to both workmanship and material.



Style No. 215

Made in Canada by

CORBETT-COWLEY
Limited

690 King St. W., TORONTO

1032 St. Antoine St., MONTREAL

Prices do not include Sales Tax, as same does not apply when garments shipped to Approved Hospital, under their purchase orders, bearing the required Sales Tax exemption certificate.

SURGEON'S COAT

Style No. 215

A popular coat for making "rounds," also for clinics and laboratory use. Made of best quality bleached duck. Has lapel collar, three pockets and side openings to permit access to inner pockets when coat is buttoned, pointed cuff on sleeves, detachable buttons. Length about 46 inches. Price \$27.00 per doz.



Style No. 105-161

ORDERLY'S COAT

Made of good quality duck, striped, medium high collar, three pockets, 5 detachable buttons, neat pointed cuff on sleeve. Price \$20.00 per dozen.

Please refer to THE CANADIAN HOSPITAL when writing

We Prepay the Freight on Bed Gowns

in Twelve Dozens lots, or on Orders for an Assortment
of items Amounting to \$100 or More

REDUCED PRICES

Material Number	Description	Per doz.
99	Best Quality Unbleached Sheeting	\$12.00
58	High Quality Bleached Sheeting..	13.00
56	Best Quality Bleached Marble Head	16.00

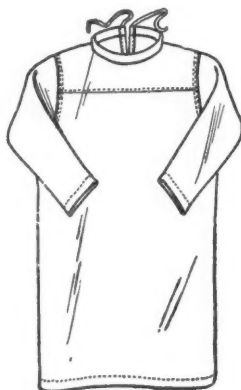
Above prices are for regular cuffs. If required with knitted cuffs add \$1.50 per doz.



Style No. 442

NURSE'S OPERATING GOWN

Full-length gown with plain front, neat turn-over collar and full-length sleeves. Closes down back with tie tapes, and with long belt stitched on front to tie at back. Can be furnished with knitted cuffs which fit closely and easily into the rubber gloves.



Style No. 407

PATIENT'S BED GOWN

Standard length, 40 inches, closes down back, with tie tapes or linen buttons, if preferred, reinforced with yoke both back and front.

BED GOWNS

Material Numbers	Description	New Prices Per Doz.
97	Unbleached Sheeting	\$ 6.75
99	Best Quality Unbleached Sheeting.....	9.00
58	High Quality Bleached Sheeting.....	9.50
56	Bleached Marble Head	11.00

Sales tax is NOT included in above quotations, as same does not apply when garments are shipped to Approved Hospitals under their purchase orders bearing the required Sales Tax exemption certificate.

All garments unconditionally
guaranteed,
as to both workmanship
and material.

CATALOGUE
SENT
ON REQUEST

Quotations cheerfully
submitted on
Special Apparel
for Hospital use.

MADE IN CANADA BY

CORBETT-COWLEY
Limited

690 KING ST. W.
TORONTO

1032 ST. ANTOINE ST.
MONTREAL

Please refer to THE CANADIAN HOSPITAL when writing

NURSES' CAPES

BY THE MAKERS OF THE WELL-KNOWN



Best Quality Blue Melton Serge, Botany finish,
Lined with Military Red Flannel.
Bust Sizes 32 to 42.

Normal Lengths **\$9.00** Each Post Prepaid
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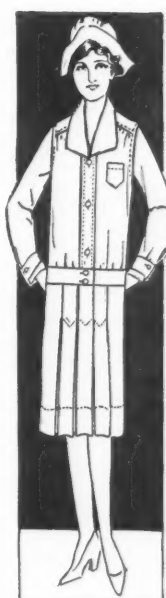
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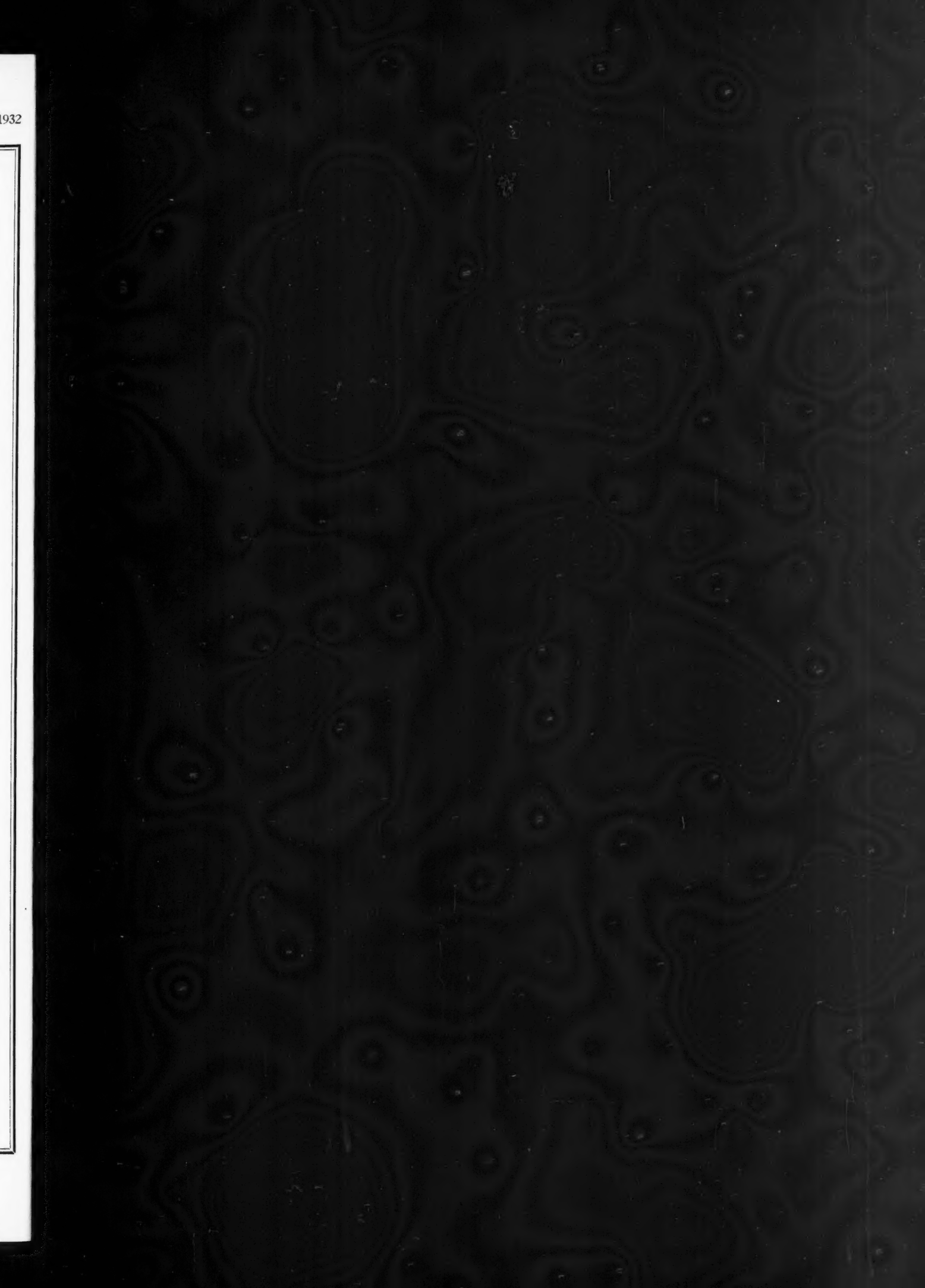
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The Trend in Hospital Construction

(Continued from page 26)

from the immediate vicinity of the operating rooms, although it is quite necessary for a certain amount of the work to be done in close proximity to the field of operation.

The autoclave sterilizer is coming into favour for both basins and instruments as well as for dressings, and the built-in type reduces much of the excess heat.

The surgeons' scrub-up is found in various locations, and is often provided in the open corridor and the use of the elbow and knee valve is common practice. Similar scrub-up basins are provided for the nurses.

The use of distilled water, piped from a central plant at the top of the building, with outlets and re-heaters in every operating room, surgical dressing room, delivery room and laboratory, adds to the efficiency and reduces the cost of equipment.

Electric Appliances

In the more modern and better thought-out hospitals, electrical appliances play an important part.

Illumination, of course, is the large factor for the patients' rooms, the corridors, the operating rooms, and wherever lights are needed.

For the patients' rooms, authorities differ as to whether the light should be at the head of the bed, on the ceiling, at the floor or all three. Very satisfactory results are obtained by the use of an enclosed ceiling light with two lamps of two different intensities operated by two wall switches, and with a night light near the floor.

One of the disturbing noises has been eliminated by the introduction of a mercury arc silent switch. Lights actually in the floor, while giving a soft light through the ward, have not been found entirely satisfactory.

Vast improvements have been made in illumination for operating rooms. The Central French lighthouse type meets with much favour as it has the advantage of giving a well defined, shadowless light and at the same time throwing off but little heat. Concealed high power lamps in the ceiling have given satisfaction in some hospitals.

Artificial illumination is largely superseding natural daylight for abdominal surgery. The necessity for the skylight seems to have vanished and where daylight is needed the vertical window has all the virtues of the skylight.

The silent light signals seem to be more satisfactory than the audible signal or loud speaker. For the nurses' call, the flexible cord with a resetting button at the patients' hand, actuating a light signal at the nurses' station and other important stations, is the most common system, although the "dictograph" signal system is used and has very enthusiastic admirers.

Signals to indicate the presence in any room of the doctor or the nurse, flashing signals to call the staff members, signals to indicate fire or other emergencies are all provided in the modern hospital. Signals to indicate the presence in the building of any doctor or individual are some of the uses of the electric light signals.

The simultaneous writing of notices and orders at many stations is used.

In the newer hospitals the radio plays a very important part in the pleasure of the patient. With the newer out-

fits the patient may select at will by the turning of a button at the bedside table any one of several programs, and with the "pillow transmitter" the ideal equipment seems to have been reached.

In many of the larger hospitals electricity has been found not only as efficient but as cheap as any fuel for cooking, with the greater advantage of cleanliness. This is quite true to a limited extent for sterilizers.

Every large hospital should have an emergency lighting outfit for all corridors, exit and operating lights. This may be provided by a small independent lighting plant or storage battery.

The telephone "jack" is found in practically all private rooms and the simple process of "plugging in" puts the patient in touch with his friends at once.

Heating and Ventilating

The complication of the heating and ventilating proposition of a few years ago has been greatly simplified in the later medical institutions. Direct heating in the rooms, opening the window for ventilation, is practiced for rooms occupied by a few patients. The utilities, the toilets, the service rooms, etc., are ventilated with ducts of sufficient capacity to not only ventilate the rooms from whence they start, but also the adjoining corridors and rooms. The vent flues are carried to the roof space where they are collected into the horizontal ducts and carried to the outside air by gravity or fan.

It has been found that the so-called "zoning system" of steam or hot water heat makes for a great saving. This system provides heat at different pressure or temporary returns in different parts of the building; e.g., the south or sheltered side not requiring the amount of heat needed on the north or an exposed side, and the rooms at the top requiring less pressure steam than those in the ground. The pressure would be automatically adjusted to meet the conditions.

Because of the fumes from the anæsthetic, all operating rooms are thoroughly ventilated from the top and bottom. Any system of ventilation which will not allow the open window is not favourably considered by the leading hospital authorities.

Steam with thermostatic control valves is satisfactory in rooms where a constant temperature is needed, but the heat in the patients' rooms should be regulated to meet the requirements of the patient. Hot water, while used extensively in Canada, the colder country, is not used to so great an extent in the States. In many communities city service steam does away with the necessity of a steam plant.

Experiments in humidification of air for hospitals have been tried, but only in rare cases have they been entirely satisfactory for large areas, or for continuous use. Local humidifiers will often supply the necessary moisture in the air.

Sound Absorption

The modern fireproof hospital of necessity is constructed of dense material offering little or no absorption, making it practically necessary for the comfort of the patients that sound absorbing material be applied in certain portions at least. It is found that if the ceilings of the corridors, of the serving kitchens and utility rooms are protected with an absorbing material, the major part of the annoying sounds are taken care of. It is hardly necessary, but many times helpful, to carry the work fur-

ther, although the rooms for disturbed patients, the delivery rooms of the maternity department, etc., may be treated with good effect. For kitchen and dish washing rooms and where there is much steam, a perforated metal covering over the absorbent is desirable.

The types of absorbents used are of various materials with varying degrees of efficiency. For this purpose, compressed fibre of the sugar cane, fine wood "excelsior," cork and many forms of absorbent plaster and tile are used.

It is the writer's opinion that too great a degree of absorption is depressing and if the echoes from the staccato notes can be absorbed, the duller notes are not so disturbing, so that effective correction may not necessarily be expensive.

The absorption of sound between rooms is also important and is accomplished by introducing between two sections of the partitions felt, mineral wool, or any soft material to absorb the sound in transit.

The writer has found that a 2" solid partition is often more sound resisting than the thicker wall.

The ever-present question "What is the best material for hospital floors?" is one that has never been answered satisfactorily to all hospital managers.

In going through some of the recent hospitals of the States one will find about every known material, but it is agreed that no one material is equally good for every location.

We are likely to find marble in the entrances and often in the operating rooms. Tile will not be seen to the extent that it was a dozen years ago. Terrazzo is perhaps used in more places and in more hospitals than any other material because of its cheapness and durability. The popularity of rubber, because of its disintegration, is waning somewhat, while the newer asphalt tile, which is much cheaper, is used to advantage in many places. Where economy must be practiced, linoleum is found to be used more commonly than any other resilient flooring, and if properly seasoned, put down and cared for proves highly satisfactory. The proper after care of any floor is necessary.

Nurses' Accommodations

As with the hospital, so with the nurses' residence, the multi-storey building is being used, for generally the training school is housed in the same building, occupying one, two and sometimes three storeys of the building. The nurses' home often includes a gymnasium and swimming pool, with social rooms for the pleasure and recreation of the nurse, also "roof garden" space for out of door sleeping dormitories for night nurses sleeping in the daytime.

The nurses' rooms are generally planned for one nurse, with clothes cupboards, wash basin and comfortable study desk and chairs. Provision is made on every floor for a small food service room where lunches may be prepared for the night nurse and where afternoon tea may be served to those off duty. A section of the residence is set aside for night nurses.

In the demonstration room of the nurses' school there is provided especially for teaching the technique of the care of the patient, the bedside equipment and the plumbing fixtures which a nurse should know about before entering the hospital. Dietetic laboratory with individual

teaching tables for scientific teaching, chemical laboratory with every facility for teaching of chemistry in relation to nursing, class and study rooms make for the complete nursing school.

Plumbing

It is found that greater care is being exercised in the designing and selecting of plumbing fixtures; fixtures that will not only function but fixtures so well built as to minimize future repairs and replacement.

It is found that some of the more important details of plumbing fixtures are designed,

- (a) to safeguard properly from sewer gas or odour and from the possibility of siphoning;
- (b) to be constructed that the inside as well as the outside of pipes may be cleaned;
- (c) to provide where possible valves which may be operated without touching the hand to the valve, but with the elbow, wrist or knee, thus making every fixture an emergency "Scrub-up" fixture.

The bedpan and its cleaning are always important bits of hospital technique and it is found that the automatic "bed-pan emptying and washing" fixtures are largely employed in the sink rooms, and a simple washing device is employed in the private patients' toilet. With the use of these devices much of the carrying of bedpans through the corridors is avoided. The writer believes that as far as practical all fixtures should stand away from the wall for more complete cleaning.

Hospital Costs in the States

From a recent survey of hospital costs and areas made by the committee of the International Hospital Congress we gathered that fireproof hospital buildings cost somewhat less per cu. ft. or meter than a few years ago, because of the increase in accommodations; there is however a less percentage of the net area occupied by the patients, thus the cost per patient has increased.

Taking the data on twenty hospitals, the average cost per cu. ft. was \$67.8, or per cu. meter \$2.38.

The average space occupied by the patients was 21.26% of the entire area.

The average cost per bed for the hospital building was \$5,315.

Summary

The hospital construction in the United States shows a trend towards the multi-storey building housing every Department, including the isolation section as well as the out-patient department, the X-ray department and the laboratories, for which an increasing space is being provided.

The austere exterior of the old hospital has given way to a more pleasing aspect.

The tendency is to abandon the small hospital for group or community hospitals.

The wards are cut down to 4-10 beds, each bed in its own cubicle, with a sliding panel. For the patients of moderate means, such wards, the two-bed room and the single room are in use.

Greater toilet facilities, individual electric appliances, noiseless calls, a greater number of utilities so located as to avoid troubling the quietness of the wards and rooms are being developed.

The administration department is usually placed at the main entrance, where ample space and careful ornamentation make for a pleasant impression.

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American Hospital Association Announces 1932 Convention Plans

We are pleased to announce that at a meeting of the Board of Trustees of the American Hospital Association held on December 7th, the Board decided upon Detroit, Michigan, as the Convention city, and the week of September 12th as the Convention period. Detroit is so accessible by rail, water and highway that there will no doubt be a very representative attendance of Canadian delegates. The Canadian Hospital Journal proposes to keep its readers posted as plans for the 1932 Convention materialize.

Ontario Hospital Association to Hold Annual Meeting October 26th to 28th

The Royal York Hotel is becoming such a favourite rendezvous for Conventions of all kinds, that the Ontario Hospital Association have found it necessary to reserve the accommodation almost nine months in advance. The Association officers have chosen October 26th, 27th and 28th as the Convention dates and the Convention floor as the locale. The same splendid accommodation has been reserved for exhibits and programme, and plans are even now under way to arrange for speakers of undisputed merit. Our readers will be kept abreast of the Association's Convention plans from month to month.

One of the reasons why we should be kindly and courteous is that most people we are dealing with have personal troubles. No amount of efficiency will prevent troubles. It comes to the ablest as well as to slackers.

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Relieving the Noise Evil in Hospitals

By R. L. LINDAHL

Acoustical Engineer, The Celotex Company

ON approaching a hospital one encounters a street sign proclaiming a "Zone of Quiet." Upon entering the hospital corridor one is invariably attracted by a "Silence" sign upon the wall where it will catch the eye. Within the hospital nurses and doctors walk on rubber heels to deaden the sound of footsteps. One naturally assumes that the hospital management considers noise to be an undesirable nuisance and is seeking to eliminate it.

It is recognized that noise of any type is disturbing to either a sick patient or a convalescent. In these states a person is hyper-sensitive. The ordinary noises in a hospital which do not bother a well person may often exasperate a patient to a state bordering upon hysteria. Elevator doors slam, rattling carts are wheeled down the corridor, iron scrub buckets are emptied in a nearby utility closet, dishes and pans are rattled in diet kitchens across the corridor, visitors talk loudly and in an effort to greet patients cheerfully become almost boisterous, and the traffic noises enter through the open window. If a patient has some distraction to relieve his mind from the annoyance of these noises, they may not bother him, but if he cannot read, cannot sleep, and can do nothing but listen to the "infernal racket," he will work himself into a state of irritation, thereby hindering rapid recovery.

Most hospital authorities recognize the evil of the situation, but too often the conditions are accepted as being irremediable. Recent developments, however, have opened new avenues of attack. It is possible to have corridor floors of soft resilient materials such as rubber tile or linoleum, rather than hard concrete or similar surfaces. Quiet hardware for doors can be obtained which is designed especially for hospitals. Elevator doors can be regulated so that they do not slam shut, and utility closets and diet kitchens can either be isolated from the vicinity of patients' rooms or provided with soundproof doors.

Probably the easiest way to solve noise problems is by the generally effective method of absorbing the noise as soon as possible after it is created. This is done by means of highly sound absorbing acoustical materials which are placed upon ceilings, and absorb the noise from any source. The interior finish of hospitals has in the past, been selected from hard, non-porous, easily washed materials, with an eye to sanitary precaution. Unfortunately, these same materials which are seemingly impervious to penetration by dirt and micro-organisms are also impervious to sound waves, so far as absorbing them is concerned. The average plaster wall absorbs but 3% of the sound which strikes it, reflecting 97%. Other materials as wood, concrete, glass, etc., also absorb less than 5% of



Probably the easiest way to solve noise problems is by the generally effective method of absorbing the noise as soon as possible after it is created.



the sound which strikes them. Any sound which is created will spread at the rate of 1,100 feet per second. Upon striking the walls, ceiling or floor of a room so finished, most of the sound energy is reflected back and forth several hundred times before its energy is sufficiently absorbed to make it inaudible. For this reason the original sound may be amplified by the continued reflection which may take place for several seconds. Everyone knows how well sound carries down a long, bare corridor. It acts as a huge speaking tube which conveys sound

faithfully.

If, when a sound were made in a room, the ceiling were covered with a material which absorbed from 50% to 70% of the sound which struck it, it would be found that the sound would die out very quickly. Instead of 95% of the sound energy being reflected from the ceiling, 50% to 70% would be absorbed at each impact. This would muffle the sound so well that it would seem to die out almost as soon as it was made. It is by treating rooms and corridors with materials of this type that we can largely eliminate the noise evil.

Figure 1 illustrates the effect of sound absorption in a room, as illustrated by Prof. F. R. Watson, in his book, "Acoustics of Buildings." Figure 2 illustrates the effect of treating a ceiling with a sound absorbing material, having a coefficient of .70, meaning that it absorbs 70% of the sound which strikes it. In an untreated room, after five reflections, the sound has been decreased in intensity only 14%. In a room having the absorbent material upon the ceiling, the same sound after five reflections has been diminished in intensity 97½%. In a room having a 10 ft. ceiling, the time required for this action to occur would be less than .1 second.

There are various types of acoustical materials upon the market, such as porous plaster, absorbent felts or quilts covered with a stretched membrane, absorbent mineral blankets concealed behind perforated metal coverings, fibrous materials perforated full of holes, etc., all of which absorb sound by reason of their porosity. In considering the acceptability of various materials for hospitals there should be taken into account the features of sanitation, maintenance, durability, and efficiency. Hospitals regularly wash and paint interior surfaces so that the materials used must be capable of being washed and painted at frequent intervals without deterioration. As regards the feature of sanitation the feeling is changing that the various porous materials used for acoustical correction need necessarily present a menace because of the possibility that germs and bacteria might breed in such places without possibility of eradication. Experiments were

↑ INTENSITY OF SOUND

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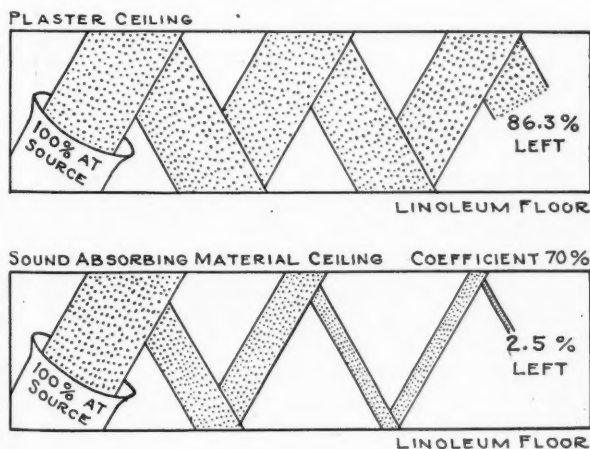
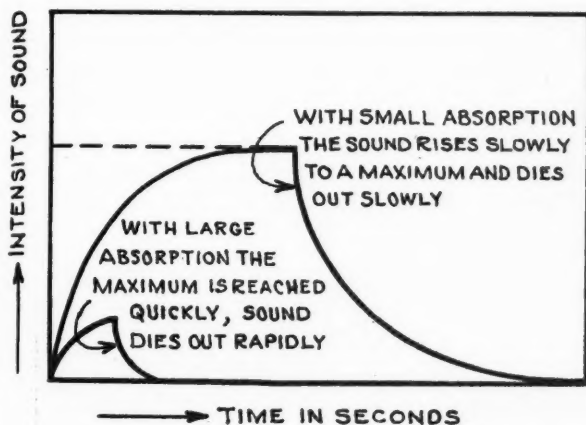
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carried on in the Bacteriological Laboratories in one of the leading Medical Schools in the country to determine whether acoustical materials would present an actual or merely a theoretical menace, as compared to the ordinary building whose place they take. The results of the study indicated that the acoustical materials which have proved acceptable for hospital use actually present no greater menace than ordinary plaster ceilings.

A statement on this subject by a member of the American College of Surgeons may be of interest. "Placing the material on the ceiling where it is out of the reach of patients and workers, and providing it with an enameled surface that can be washed, is undoubtedly a safe practice. The adequate fumigation of the room at the necessary intervals will take care of properly disinfecting the sound absorbing material along with the other articles and wall surfaces in the patient's room."

In the matter of efficiency it must be remembered in purchasing acoustical materials one is purchasing sound absorption. Absorbing materials are rated in the percentage of sound which they absorb. It is naturally worth while to spend more per square foot for an efficient material if one is securing greater sound absorption than for another material whose unit efficiency is less. The particular degree of efficiency required in a material de-

(Continued on page 36)



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Relieving the Noise Evil in Hospitals

(Continued from page 35)

depends upon the requirements of the location in which it is placed. In some cases a material with a low coefficient of absorption will prove satisfactory, while in other locations which are extremely noisy it is necessary to use a very efficient material to muffle the sound.

The question commonly asked by hospital authorities is "What rooms should normally be treated acoustically to secure best results?" It is not necessary to treat every room in a hospital to decrease the annoyance from noise to a tolerable level. Here are certain general classes of rooms which should be treated in almost every hospital.

(1) Corridors, which normally convey so faithfully the noise from every room on it to every other room along the corridor should be treated with an efficient acoustical material upon the ceiling to prevent the spread of noise. (2) Utility closets and diet kitchens should be treated to cut down the noise made by the rattling of utensils, buckets, etc. (3) Rooms in which patients are likely to moan or scream, as delivery rooms or rooms for mental patients, should be quieted. (4) Nursery rooms are also commonly treated. (5) Doctors' examining rooms when close to street traffic should also be quieted, in order to

enable the doctor to detect faint sounds, as when examining the heart and lungs. (6) Rooms having noisy mechanical equipment, as X-ray machines, should have treatment upon the ceiling. This is merely a general list of rooms. In every hospital the individual requirements will be slightly different. In some hospitals having patients' rooms along a noisy street, it might be well to treat the individual rooms, although this is not usually necessary.

A great deal of street noise enters through open windows and the annoyance from traffic noise is usually greatest in the summer when windows are opened for ventilation. A solution of the problem can usually be arrived at by a patented type of window muffler which looks like an ordinary opaque ventilator placed at a slight angle on the sill, but which is lined with a highly absorbent material on the street side. The incoming air is deflected by the curved ventilator toward the ceiling, avoiding drafts, but the sound strikes the absorbent material and is very largely absorbed. The reduction in loudness obtained is sometimes nearly equal to that of the closed window. Of course, the window cannot be opened the full length, but only about as high as the ventilator, which is sufficient under most conditions.

There is also upon the market a window ventilating device which takes in outside air at the bottom of the window and circulates it, while filtering out the dust and



TWO TYPICAL APPLICATIONS OF A SOUNDPROOFING PRODUCT

Left—Acousti-Celotex has been applied to the ceiling of this typical corridor in the Ross Pavilion of the Royal Victoria Hospital, Montreal, P.Q.

Right—In the Private Patients' Pavilion of the Toronto General Hospital Acousti-Celotex will be found applied to the ceilings of the elevator halls.

deadening the noise. The device looks like a small cabinet placed in front of the window, which remains closed.

The effect of noise upon individual human beings is still a matter of investigation. It has been determined by experiment that in normal human beings the presence of an excessive noise level cuts down production and lessens efficiency in ordinary working tasks. It was discovered that noise, when present in definite amounts, created a fear reaction, of which the essential elements are, (a) increased tension of voluntary muscles, (b) lessened activity of involuntary muscles in the digestive tract, (c) increased pulse rate, (d) increased blood pressure, (e) diminished secretion of saliva and digestive juices, and (f) a vague feeling of apprehension, sometimes accompanied by a generally restless behavior.

Data upon the effect of auditory stimuli upon human beings is not abundant and in many cases there is a lack of scientific control and specification of the type of stimuli employed. It may be interesting, however, to quote from an article by Dr. Donald A. Laird entitled, "The Effects of Noise," published in the Journal of the Acoustical Society of America for January, 1930.

"Visual sensations were intensified by sounds from a tuning fork which was vibrating while observers were trying to discriminate slight changes in color.

"Sensations of smell have also been found to be increased in intensity by the presence of noises.

"Patches of color at such a distance from the observer that they cannot be recognized become perceptible when a tuning fork is sounded.

"Breathing of frogs is slowed by relatively pure acoustic stimuli when the tones are prolonged, while the repeated stimuli of an alarm clock bell yield a faster breathing rate. Frogs with the cerebral hemispheres removed give the same results. With mammalian forms of life (cat, dog, and rabbit) all acoustic stimuli produced faster and shallower breathing. Animals with the cerebral hemispheres removed gave the same results as those with intact nervous systems.

"Human beings in response to the unexpected sounding of an electric automobile horn breathe faster, after a momentary checking of the rate. The breathing is also deeper and the rate is irregular.

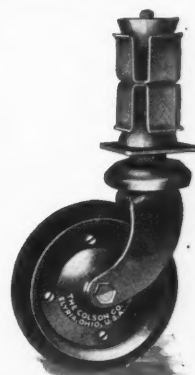
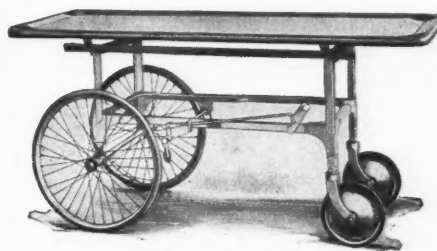
"The noise of a firecracker raised systolic blood pressure 20mm. in 20 seconds. The same experimenter reports that music, both popular and classical, decreased the pressure. Another experimenter records that music speeds or slows the pulse, depending upon the character of the music. Another reports that the noise made by a telephone bell will accelerate the heart rate. Listening to popular music gave a pulse rate of 2.5 more beats per minute than listening to classical music. The sound of a nearby electric automobile horn has been found to slow the pulse rate. The pulse rate of dogs is increased as a result of auditory stimulation, even when the animal is under the influence of strychnine."

The effect of noise in general, therefore, would seem to be, so far as a patient is concerned, to intensify discrimination of various senses, to lead to increased pulse and breathing rate and, in general, to prevent relaxation. Any one who has been a patient in a hospital can testify to the annoyance due to noise, even though he or she may not be able to specifically enumerate its effects.

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University of Alberta Hospital Approved for Internship of Dietitians

SECOND in Canada to be placed on the "approved" list by the American Dietetic Association, the University of Alberta Hospital, Edmonton, Alberta, is now recognized for dietetic internship. The first Canadian institution to be recognized was the Vancouver General Hospital, to which approval was given in 1925. The Hospital Dietetic Council was the first international organization to standardize a hospital training course for dietitians, its work being carried on by the American Dietetic Association subsequent to 1925.

Among the requirements of the hospital for approval are the following: (1) Membership in the American Hospital Association, (2) A minimum of 100 beds, (3) An accredited nurses' training school, (4) A chief dietitian responsible to the hospital superintendent, (5) All dietitians on the permanent staff eligible for membership in the American Dietetic Association. In addition the dietary department must supervise and control general diets for patients, therapeutic diets of various types, child feeding and infant formulae, private room service and staff dietaries.

Student dietitians are required to be 21 years of age, with a minimum education of a Bachelor's degree with a major in Foods and Nutrition from a recognized college or university. The course must be at least six months in length, with provision for constant enrolment of at least two students. It demands 42 hours weekly duty under the supervision of the dietetic staff, with attendance at conferences, clubs and seminars. A certificate must be offered on the completion of the course.

The following constitutes a list of minimum assignments for students in the University of Alberta Hospital:

1. ADMINISTRATION.

- Buying.
- Marketing.
- Handling daily requisitions.
- Distributing: Store room supplies—Kitchen foods.
- Accounts.
- Interviewing employees.
- Store room inventory.
- Breakages.
- Calculate: Costs—Food values.
- Visit: Baby clinics—6.
- O.P.D.—Nutrition Clinics—6.
- Wholesale grocers.
- Factories.

2. PRIVATE WARD KITCHEN.

- Daily count.
- Daily requisitions.
- Small market orders.
- Distributing trays.
- Interviewing patients.
- Inventory.
- Instructing junior nurse.
- Plan one week's menus.

3. SPECIAL DIET KITCHEN.

- Daily menus.
- Daily charge sheets.
- Daily requisitions.
- Distribute trays.
- Interview and instruct patients.
- Inventory.
- Instruct senior nurses: Calculate one diabetic diet with each nurse. Plan one special diet menu for one week with each nurse.
- Attend one conference or lecture each week.

4. METABOLIC DEPARTMENT.

- 2 weeks' daily urines.
- 2 weeks' diabetic charts.
- 2 weeks' ward rounds.
- Routine test meals—1 Gastric.
 - 1 Sugar tolerance.
 - 1 Fat tolerance.
 - 1 Gall bladder X-Ray.
- 1 special cookery problem.
- 1 special diet problem.
- 6 Basal Metabolisms.

(Continued on page 44)



MISS MARGARET M. MALONE,
Therapeutic Dietitian, University of Alberta
Hospital, Edmonton, Alberta.

ry, 1932

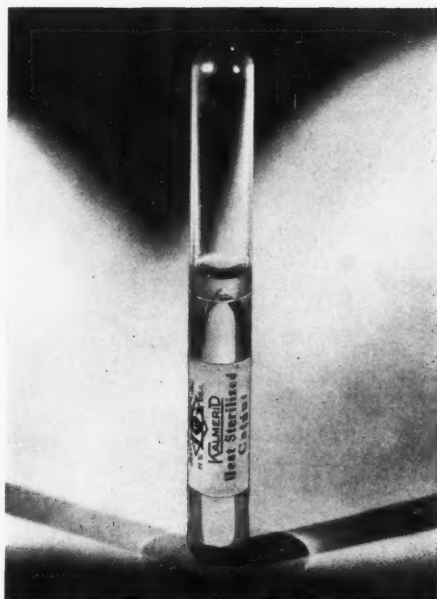
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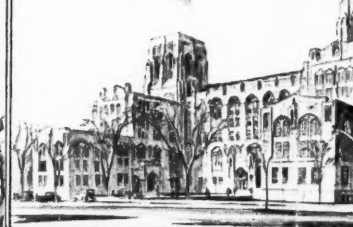
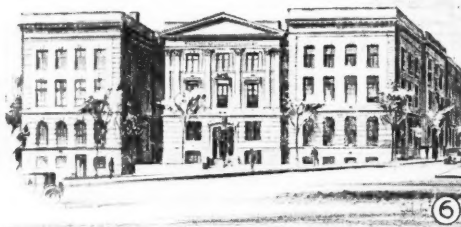
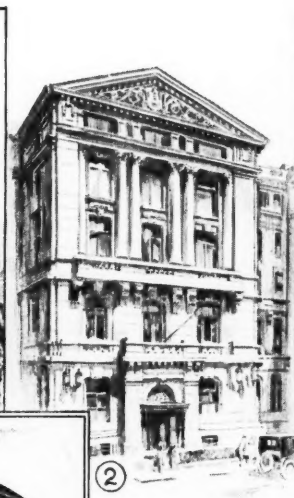
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APPRECIATION

THE highest reward of earnest endeavor is found in the confidence of those we seek to serve ~ ~ ~ During the year 1931, despite the low hospital occupancy and adverse economic conditions, we supplied more D&G sutures than in any other year in the history of our business, including the emergency period of the World War ~ ~ ~ We can think of no better way to express our appreciation to the profession for their continued confidence than to renew the assurance of our unceasing effort to maintain the high standard of excellence which each year has brought D&G sutures nearer to the ideal of perfection. ~ ~ ~

DAVIS & GECK, INC.

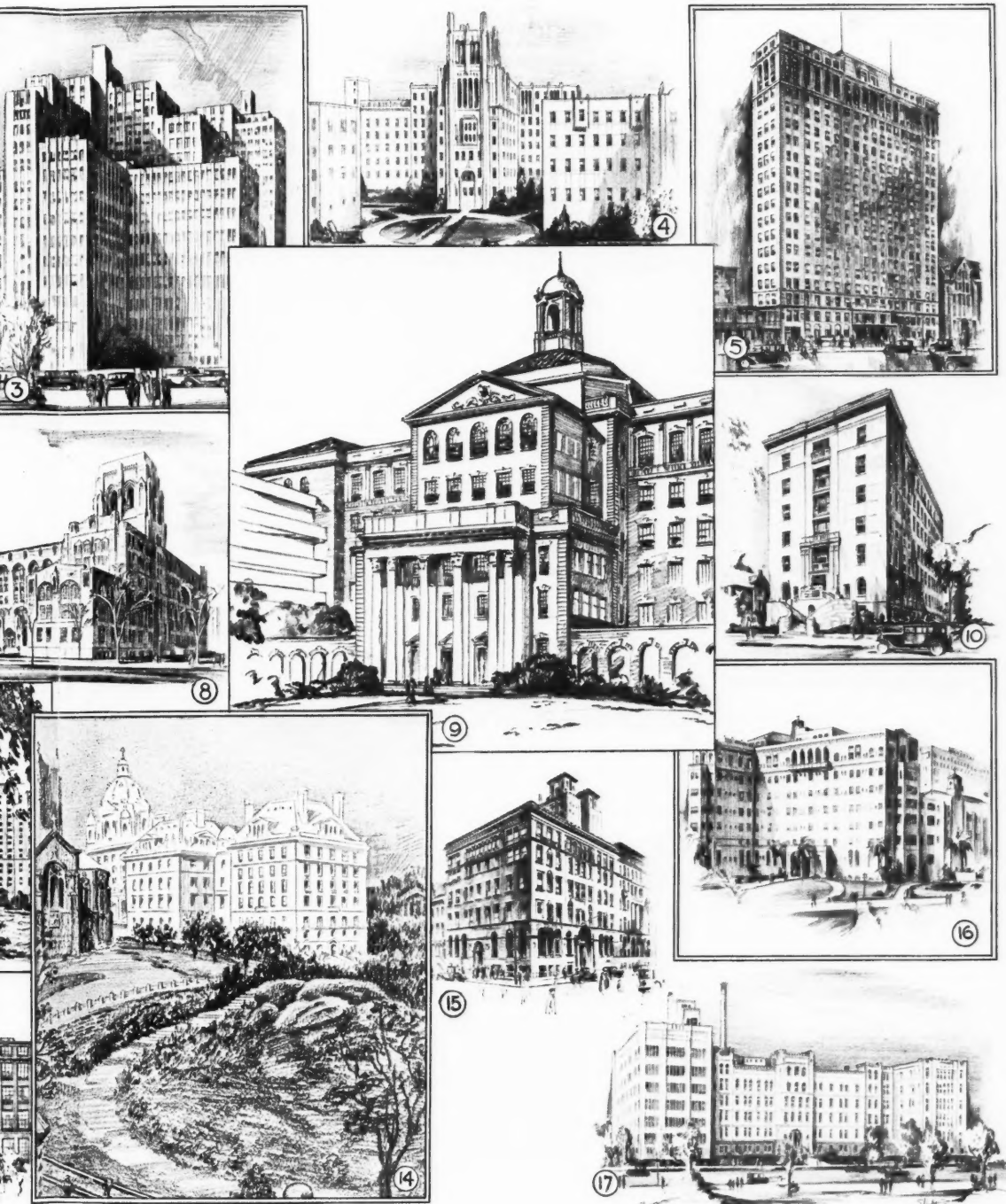


A FEW OF THE FAMOUS HOSPITALS WHICH

- 1 Jersey City Medical Center
- 2 Mount Sinai Hospital, New York, Administrative Center

- 3 Columbia-Presbyterian Medical Center
- 4 University of Iowa Hospital
- 5 St. Luke's Hospital, Chicago

- 6 The Memorial Hospital, Richmond
- 7 Alleghany General Hospital, Pittsburgh
- 8 Billings Memorial Hospital, Chicago



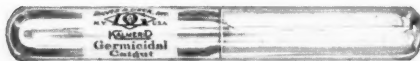
HOSPITALS WHERE D&G SUTURES ARE USED

- | | | |
|---|------------------------------------|---|
| 9 New Haven Hospital | 12 University of Michigan Hospital | 15 New York Post-Graduate Hospital |
| 10 Cleveland Clinic Hospital | 13 Winnipeg General Hospital | 16 St. Vincent's Hospital, Los Angeles |
| 11 Johns Hopkins Hospital,
Administration Building | 14 St. Luke's Hospital, New York | 17 Latter-Day Saints Hospital, Salt Lake City |

D & G Sutures PRICE LIST FOR DOMINION OF CANADA

Kalmerid Catgut

GERMICIDAL. Exerts a bactericidal action in the suture tract. Supersedes the older unstable iodized sutures. Impregnated with the double iodine compound, potassium-mercuric-iodide. Heat sterilized.



The boilable grade is unusually flexible for boilable catgut; the non-boilable grade is extremely flexible.

TWO VARIETIES

BOILABLE*		NON-BOILABLE	
NO.		NO.	
1205	PLAIN CATGUT	1405	
1225	10-DAY CHROMIC	1425	
1245	20-DAY CHROMIC	1445	
1285	40-DAY CHROMIC	1485	

Sizes: 000 . . 00 . . 0 . . 1 . . 2 . . 3 . . 4

Approximately 60 inches in each tube

Package of 12 tubes of a size . . . \$3.60
Less 20% on gross or more or \$34.56, net, a gross

Atraumatic Sutures

FOR GASTRO-INTESTINAL suturing and for all membranes where minimized suture trauma is desirable. Integrally affixed to 20-day Kalmerid catgut. Boilable.



NO.	INCHES IN TUBE	DOZEN
1341	STRAIGHT NEEDLE	28 . . . \$3.60
1342	TWO STRAIGHT NEEDLES	36 . . . 4.20
1343	3/8-CIRCLE NEEDLE	28 . . . 4.20
1345	1/2-CIRCLE NEEDLE	28 . . . 4.20

Less 20% discount on one gross or more

Sizes: 00 . . 0 . . 1

In packages of 12 tubes of a kind and size

Obstetrical Sutures

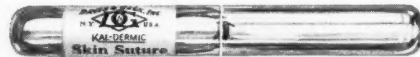
FOR immediate repair of perineal lacerations. A 28-inch suture of 40-day Kalmerid germicidal catgut, size 3, threaded on a large full-curved needle. Boilable.

No. 650. Package of 12 tubes . . . \$4.20
Less 20% on gross or more or \$40.32, net, a gross

Kal-dermic Skin Sutures

"IDEAL FOR DERMA-CLOSURE"

A NON-CAPILLARY, heat sterilized suture of unusual flexibility and strength. It is uniform in size, non-irritating, and of distinctive blue color. Boilable.



NO.	INCHES IN TUBE	DOZEN
550	WITHOUT NEEDLE	60 . . . \$3.60
852	WITHOUT NEEDLE	20 . . . 1.80
954	WITH 1/2-CURVED NEEDLE	20 . . . 3.00

Less 20% discount on one gross or more

Sizes: 000 . . 00 . . 0
(FINE) (MEDIUM) (COARSE)

In packages of 12 tubes of a kind and size

Kal-dermic Tension Sutures

(Identical in all respects to Kal-dermic skin sutures but larger in size.)

NO.	INCHES IN TUBE	DOZEN
555	WITHOUT NEEDLE	60 . . . \$3.60

Less 20% discount on one gross or more

Sizes: 1 . . 2 . . 3
(FINE) (MEDIUM) (COARSE)

In packages of 12 tubes of a kind and size

Kalmerid Kangaroo Tendons

CHROMICIZED to resist absorption for approximately thirty days.

NO.	
370	NON-BOILABLE GRADE
380	BOILABLE GRADE

Sizes: 0 . . 2 . . 4 . . 6 . . 8 . . 16 . . 24

Each tube contains one tendon

Lengths vary from 12 to 20 inches

Package of 12 tubes of a size . . . \$3.60
Less 20% on gross or more or \$34.56, net, a gross

Circumcision Sutures

A 28-INCH suture of Kalmerid germicidal catgut, plain, size 00, threaded on a small full-curved needle. Boilable.

No. 600. Package of 12 tubes . . . \$3.60
Less 20% on gross or more or \$34.56, net, a gross

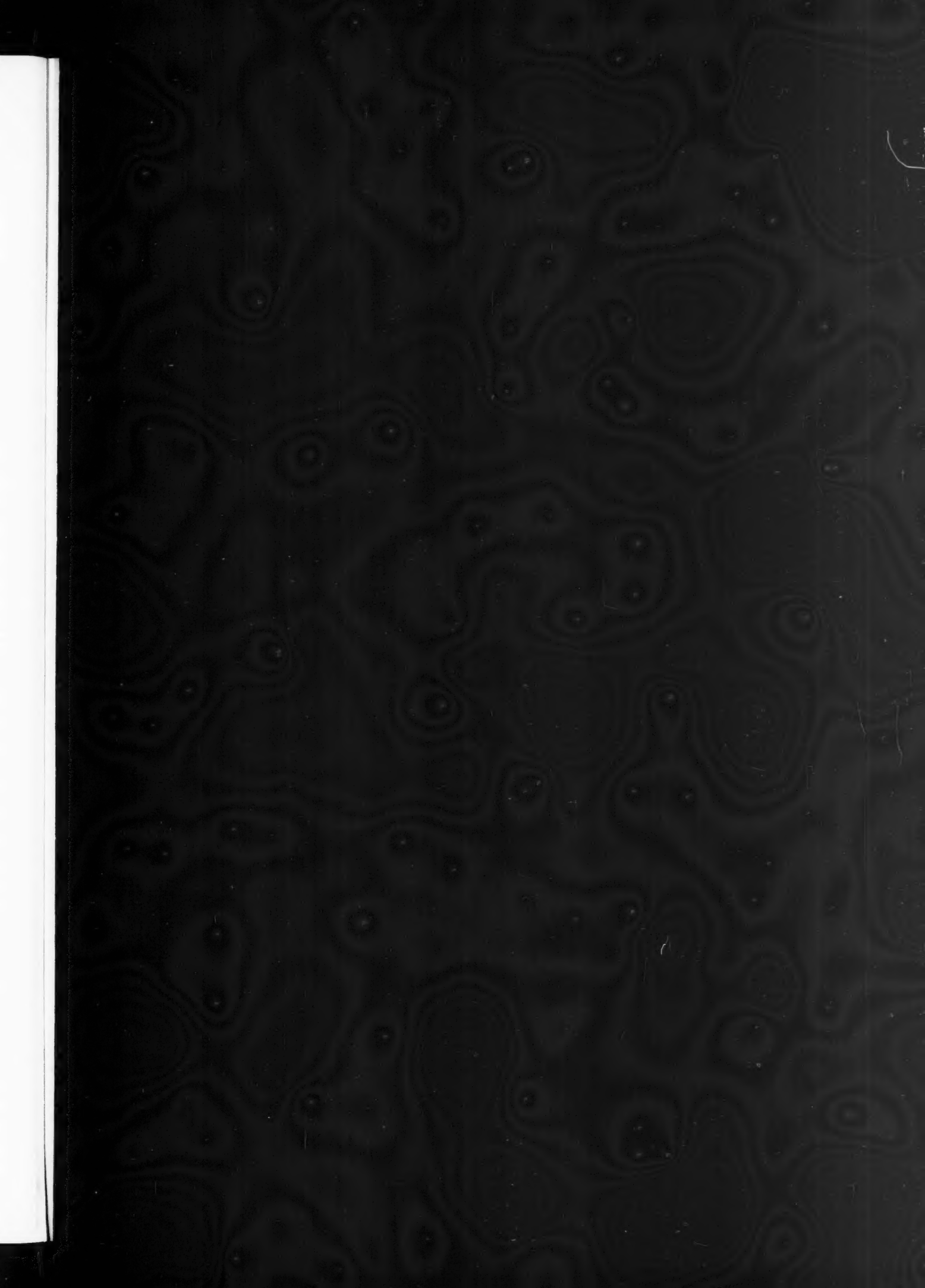
Other D & G Products

INFORMATION and prices covering unabsorbable sutures, short sutures for minor surgery, and emergency sutures with needles, will be sent upon request.

DAVIS & GECK INC. • 217 DUFFIELD STREET • BROOKLYN, N. Y.

D & G Sutures are obtainable from responsible dealers everywhere; or direct, postpaid

Printed in U. S. A.



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Souris and Glenwood Memorial Hospital Has Excellent Facilities



The exterior of the Souris and Glenwood Memorial Hospital, Souris, Manitoba, presents the appearance of a well-kept private residence. In the rear may be seen the new three-storey wing.

ABOUT the first attempt to build a municipal hospital in Souris, Manitoba, was made in 1912.

Early in the summer of that year, two by-laws were submitted to the ratepayers of Souris and Glenwood, that in Souris being carried but the other defeated. Three sites were voted on, and from the first the question of a site was a perplexing one. The Brown site, which was favoured by the voters, was located north-west of the town and north of what is now known as Caragana Park. The attempt to build ended in failure.

The outbreak of the war two years later ended all agitation for the institution, but with the close of hostilities in 1918, the question of a suitable memorial to the men who fell in the war became one of much discussion. Early in 1919 the provisions of the Municipal Hospitals Act were placed before a meeting of the Board of Trade, with the result that only a short time elapsed until the necessary petitions were presented to the rural and town councils. The demand at once became general, and if the citizens agreed, it was suggested that the hospital be the community's memorial. Ratepayers in both municipalities voted strongly for the by-laws, and on January 13th, 1920, the newly appointed Hospital Board held its first meeting.

After considerable deliberation and inquiry it was finally decided to purchase the handsome and beautifully located residence of Colonel and Mrs. A. L. Young in Idlewyld. In November of 1920 possession was taken

of the building and alterations were at once undertaken. A new plumbing system was installed and a second heating system. Alterations were completed and equipment installed early in 1921, with the result that the institution was formally opened on February 15th of that year. Miss Newton, now of Arcola, was the first superintendent. During the first year 250 patients were admitted. Gradually, year by year the admissions have increased, until last year 537 patients were cared for.

Several years ago the members of the board realized that in order to give better service and provide sufficient accommodation for the nursing staff, an addition was needed. Plans were at once formulated by Mr. W. C. Box, the treasurer of the hospital. On May 11th, 1930, the ratepayers of Souris and Glenwood expressed their approval of the extension of the hospital by vote, and a \$12,000 wing was commenced at once. The new wing was formally opened on October 29th, 1930, by the Honorable Dr. Montgomery, Minister of Health for Manitoba.

The Souris and Glenwood Memorial Hospital has now accommodation for 30 adult patients, 4 children and 8 babies. Before the new wing was added there were 22 beds for patients and 4 baby cots. The hospital now has 14 beds for the staff, being more than double the former accommodation. Miss Edna MacGregor has been Superintendent since December, 1926. She is a graduate of Morden Free Masons Hospital, class of 1920.

University of Alberta Hospital Approved for Internship of Dietitians

(Continued from page 38)

- 1 complete Urinalysis.
- 1 Blood Sugar.
- 1 complete set of kidney function tests.
- 3 administrations of insulin.

The University of Alberta Hospital is a 365-bed closed staff, teaching hospital with an accredited nurses' training school. It is owned by the Provincial Government and is administered through a corporate body, the Board of Management consisting of three members appointed by the Government and three by the University of Alberta. Dr. R. T. Washburn is Superintendent of the Hospital.

The dietetic staff includes two permanent dietitians, Miss Lucy McLellan and Miss Margaret Malone. The hospital offers constant supervision for a six months' course for four student dietitians. Dietetic internship consists of four terms of six weeks each, as outlined above. The course is made particularly valuable and interesting by the provision made for practical work and study in the Metabolic Department.

The Metabolic Department is supervised by Dr. Heber C. Jamieson. There is a well equipped biochemical laboratory and experimental kitchen for diagnosis and routine treatment of metabolic disorders and for research. The student is able to acquire an extremely important and useful knowledge of the co-ordination between the medical and dietary aspects of metabolic diseases therefrom.

The University of Alberta Hospital is to be congratulated upon this coveted mark of distinction which has so recently been conferred upon it in meeting with the requirements for the internship of graduate dietitians.

A New Food Cutter of Interest to Smaller Hospitals

The Hobart Manufacturing Company of Troy, Ohio, and Toronto, has recently brought out what is claimed to be the very latest development in food cutters. The company has manufactured food cutters of a high type for many years and now offers this new model as a duplication of quality and advancement in a much smaller size.

*A new Hobart Electric Food
Cutter which should
appeal particularly to the
smaller hospitals.*

In other words, all features of the larger types are to be found in more compact form in this machine, which is designed to sell at a price which should appeal to smaller institutions.

Quoting from one of the company's recent circulars, this is "A genuine Hobart Electric Food Cutter that will do everything done by the larger models—at a price so low—and on terms so easy, as to make it both practical and profitable in the smallest kitchens. Hobart-built motor—revolving bowl—interlocking safety switch—knife guard—knives of finest steel—attachment hub for wide line of useful attachments. The same lightning speed—the same broad range of important duty—the same quiet, smooth running and lasting features as in the larger models. Soup stock, croquettes, minced ham, Salisbury steak, meat loaves, hash, sausage, hamburger, vegetables and fruits for salads, deviled eggs, crumbed bread—and many other things—uniformly cut in a few seconds. Julienne, cottage fry potatoes, saratoga chips, onions, tomatoes, oranges, lemons, apples, slaw, celery and whatnot quickly sliced—cheese, beets, carrots, nuts shredded and grated—all this and more on the slicer attachment."

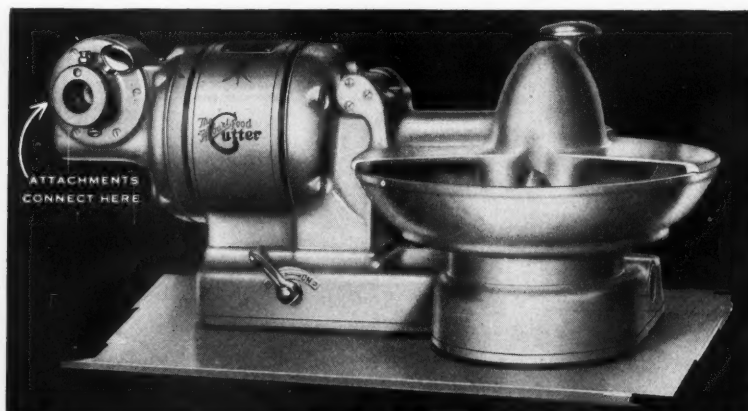
Many kitchens are equipped with food cutters, and those who have used them for any length of time realize how indispensable they are. It happens, however, that many kitchens urgently needing machines of this kind have, unfortunately, never been actually shown how they save both time and money. Reduction of food costs nowadays is vitally important—and the manufacturers claim that Hobart Food Cutters in the majority of kitchens will solve many of these problems, advancing the quality of all dishes prepared at the same time.

Two very fine mailing pieces have recently been prepared, and are such that hospital kitchen executives will find much of interest therein.

TORONTO, ONT.—The Mystic Shriners of Rameses Temple have voted \$25,000 to the Hospital for Sick Children for the endowment in perpetuity of seven beds in the Toronto hospital and eleven beds at the Thistletown convalescent unit.

* * *

WETASKIWIN, ALTA.—The proposed new hospital for Wetaskiwin seems assured by a by-law authorizing the district to raise \$15,000 for the erection and maintenance of the proposed institution.



G. H. Wood & Company Limited Announce New Portable Foot-Operating Soap Dispenser

G. H. Wood & Company Limited are now producing in the Dominion of Canada their new Lik-wiD Brand Surgical Soap Dispenser, built both for single and dual control.

These dispensers are beautifully finished and appear to be exceptionally efficient. Liquid soap is dispensed from a spout that protrudes over the basin, merely by pressing the foot on a button installed at the base of the equipment.

The Single Dispenser is, of course, designed for use where there is only one basin in the Scrub-Up Room, and the other with dual control is intended for placing between two washbasins, and is so constructed that it can be used by two people at the same time.

The finish is in heavy Chromium Plate, and the bases can be obtained in either white or black enamel.

All Hospital Executives will, we feel sure, be interested in this Canadian produced equipment which, we understand, sells for a very low price.

We would suggest that you write to G. H. Wood & Company Limited at any of their six offices. They will send you promptly, full illustrations and prices.

News of Hospitals and Staffs

BRANDON, MAN.—Contracts were recently awarded for the new pavilion unit at the Brandon Mental Hospital to Epton, Fulcher and Beresford for about \$140,000.

* * *

FREDERICTON, N.B.—Victoria Public Hospital has decided to establish at an early date a pathological department and laboratory with full time technician in charge.

* * *

LONDON, ONT.—The contract for the erection of a nurses' residence at the Queen Alexandra Sanatorium has been awarded to Harry Hayman & Sons. Work on this structure, together with the new 150-bed pavilion, has been commenced, marking the beginning of a building programme which will cost in the vicinity of \$170,000.

* * *

MONCTON, N.B.—Keeping pace with the times, the Moncton City Hospital has inaugurated a special outpatient department for those in straightened circumstances, treatments being charged for at the nominal rate of 25 cents per treatment.

* * *

MONTREAL, P.Q.—The Montreal General Hospital and the Royal Institution for the Advancement of Learning of McGill University will each receive one sixth of a tenth interest in the estate of the late C. E. Neill. The Victoria Hospital at Fredericton, N.B. and the University of New Brunswick will each receive two sixths of the tenth interest under the terms of the late Mr. Neill's will.

* * *

REGINA, SASK.—Pending the appointment of a successor to Dr. S. R. D. Hewitt, former superintendent of the Regina General Hospital, Mr. Stanley T. Martin, assistant superintendent, is acting head of the hospital.



DOCTORS LIKE IT

Because, for the utmost restfulness, so vital to the well being and recovery of the patient, there can be no choice other than the Curled Hair Mattress.

They like it because it is sanitary and fulfils every demand of modern hygiene, for Curled Hair is thoroughly sterilized many times in the course of manufacture; it is self ventilating with every movement of the body, repels moistures and is inimical to germs.

Sterilized Curled Hair

has no substitute as a mattress filler



MANUFACTURERS

Write us for samples and prices of our
Hospital Grades

TORONTO

MONTREAL

NOVAN Thermometers Syringes !

IMPORTANT—Our hypodermic syringes are finished with the American or luer tip and are guaranteed to be of accurate and perfect finish. Our Clinical thermometers are ½ and 1 minute. Graduated in two colors, guaranteed as to precision, as they are four point tested from 96° to 108°.

SYRINGES, ONE NEEDLE, CARDBOARD BOX

2 cc. ....	.33
3 cc. ....	.35
5 cc. ....	.52
10 cc. ....	.67
20 cc. ....	.87
30 cc.	1.10
50 cc.	1.40
100 cc.	2.14

SYRINGES, TWO NEEDLES, METAL BOX

2 cc. ....	.50
3 cc. ....	.54
5 cc. ....	.89
10 cc.	1.10
20 cc.	1.67
30 cc.	2.67
50 cc.	4.00

NOVAN THERMOMETERS

Metal case .....	.30
Hard rubber case with chain .....	.34
Hard rubber case with clip .....	.34
Red ribbed rubber case with clip .....	.37
Fountain pen case with one thermometer, either buccal or rectal .....	.70
Fountain pen case with two thermometers, either buccal, rectal or mixed	1.25

Herdt & Charton, Inc.

2027 McGill College Ave. - Montreal

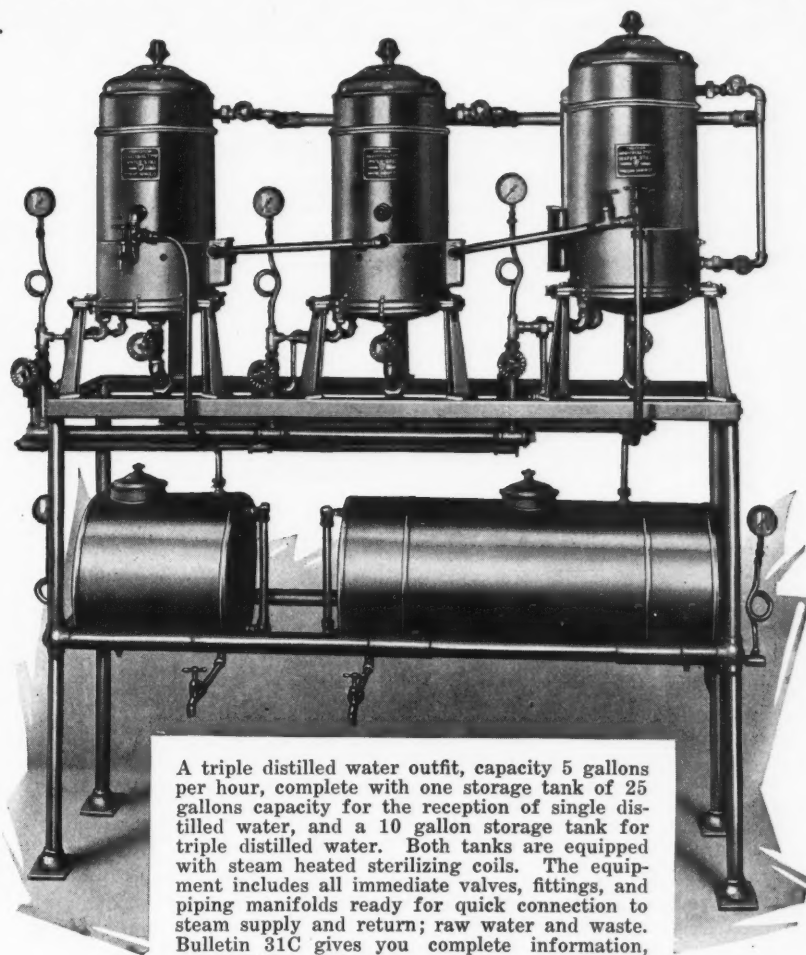
Please refer to THE CANADIAN HOSPITAL when writing

The Hospital Building Programme

Building Under Construction or Proposed

- Hamilton General Hospital, Hamilton, Ont. 100 bed maternity wing and Nurses' Residence. \$800,000.
- St. Luc Hospital, Montreal, P.Q. Contagious Diseases Unit (\$1,500,000 guaranteed by the city). 300 beds.
- Vancouver General Hospital, Vancouver, B.C. Internes' Hostel (\$40,000).
- Women's College Hospital, Toronto, Ont. 75 beds. \$400,000.
- Orthopædic Hospital, Toronto, Ont. 100 beds. \$500,000.
- St. Johns Hospital, St. Johns, P.Q. \$300,000 wing to be undertaken immediately, giving additional 200 beds.
- Christie Street Hospital, Toronto, Ont. Extension to Orthopædic factory.
- Jewish Hospital, Montreal, P.Q. Construction of 200 bed institution under way.
- Bruchesi Institute Sanatorium, Montreal, P.Q. 500 beds. Cost, \$1,500,000.
- Notre Dame Hospital, Montreal, P.Q. 200 bed wing costing \$1,500,000.
- Enfant Jesus Hospital, Montreal, P.Q. Contract let for \$225,000 building.
- Western Hospital, Toronto, Ont. Complete new plant containing 300 beds at least.
- St. Michael Archangel Hospital, Quebec City, P.Q. \$50,000 addition.
- Five-year hospital building programme costing \$3,750,000 proposed for Vancouver area.
- St. Joseph's Hospital, Three Rivers, P.Q. Four-storey wing.
- Battle Harbour, Newfoundland. New hospital to replace one burnt.
- Ontario Hospital, Hamilton, Ont. \$70,000 auditorium.
- Grace Dart Home, Montreal, P.Q. New institution. 100 beds.
- Saskatoon City Hospital, Saskatoon, Sask. New wing costing \$218,000.
- St. Michael's Hospital, Buckingham, P.Q. New \$45,000 wing.
- Halifax Infirmary, Halifax, N.S. \$1,000,000 institution.
- Victoria Hospital, London, Ont. \$200,000 wing.
- St. Mary's Hospital, Montreal, P.Q. New hospital costing \$1,000,000.
- Catholic Hospital (no other name as yet suggested), Montreal, P.Q.
- Royal Ottawa Sanatorium, Ottawa, Ont. \$100,000 addition assured.
- Toronto East General Hospital, Toronto, Ont. Nurses' Residence and new wing proposed.
- Deer Lodge Military Hospital, Winnipeg, Man. New wing proposed.
- Notre Dame Hospital, Montreal, P.Q. Nurses' Residence costing \$492,500 proposed.
- St. Justine Hospital for Children, Montreal, P.Q. New wing proposed, to cost \$150,000.
- Victoria Hospital, Fredericton, N.B. \$50,000 Nurses' Residence proposed.
- Alexandra Hospital, Ingersoll, Ont. \$10,000 Nurses' Residence proposed.
- Nova Scotia Sanatorium, Kentville, N.S. New infirmary housing 80 patients.
- St. Vincent Hospital for Incurables, Ottawa, Ont. New building proposed.
- Nicholls Hospital, Peterboro, Ont. New wing proposed.
- Napanee, Ont. New hospital proposed.
- War Memorial Hospital, Williams Lake, B.C. Indian wing proposed.
- Bathurst, N.B. 100 bed sanatorium costing approximately \$300,000 under construction.
- Inverness County Memorial, Inverness, N.S. T.B. annex to be built.
- Lunenburg, N.S. 10 bed hospital proposed.
- Ontario Hospital, Penetang, Ont. 150 beds for criminally insane at a cost of \$275,000.
- Woodstock General Hospital, Woodstock, Ont. \$30,000 isolation unit proposed.
- School of Hygiene, University of Toronto, Toronto, Ont. \$600,000 expansion scheme.
- Biggar, Sask. New hospital proposed costing \$125,000.
- Clinton General Hospital, Clinton, Ont. New wing proposed.
- Winnipeg General Hospital, Winnipeg, Man. \$750,000 wing tentatively decided upon.
- Ontario Hospital, Brockville, Ont. New Nurses' Residence costing \$100,000 proposed.
- Hospital and Orphanage, Mont Laurier, P.Q. \$100,000 building under construction.
- Brandon Mental Hospital, Brandon, Man. New \$250,000 addition. 160 patients to be accommodated.
- Hebrew Consumptive Aid Association, Montreal, propose a 50-bed hospital costing in the neighbourhood of \$200,000.
- New hospital at Charlottetown, P.E.I., under construction.
- The National Sanatorium Association will add 100 beds to both the Muskoka Hospital for Consumptives and the Toronto Hospital for Consumptives. at a cost of \$600,000.
- Home for Incurable Children, Toronto, Ont. Nurses' residence under construction.
- Ontario Government and Dominion Government will spend \$2,000,000 to assist in the extension of Ontario sanatoria.
- Royal Victoria Hospital, Montreal, P.Q. New Nurses'

(Continued on page 62)



SINGLE, DOUBLE OR TRIPLE DISTILLED WATER

OF major importance is the physical, chemical, and bacteriological purity of distilled water used for surgical dressings, saline solutions, colloidal gold, blood tests, intravenous injections, and pharmaceuticals. Even the slightest contamination is not permissible—distilled water must be pure—absolutely sterile; otherwise it is unfit for use. In using distilled water, you cannot afford to take chances.

No matter what your distilled water requirements may

be, there is a "Precision" Automatic Water Still ideal for your use. Heated by steam, gas or electricity, they produce a continuous, economical supply of pure distilled water with practically no attention required. Capacities range from only one gallon, to as much as 150 gallons per hour.

Write, right now, for your copies of Bulletins 31B and 31C—40 pages liberally illustrated, giving you valuable information which you should have.

CANADIAN LABORATORY SUPPLIES LIMITED

437-439 King St. West
Toronto 2, Ontario

296 St. Paul. West
Montreal, Quebec

Please refer to THE CANADIAN HOSPITAL when writing

Colson Equipment Meets Standard and Specialized Hospital Needs

Hospitals everywhere are finding that Colson-made products give them unusual service in caring for the sick. For The Colson Company has conscientiously studied the every day requirements of busy hospitals and has skillfully designed equipment that really helps them operate more efficiently. Every consideration is given to the welfare of its future patients, so that nurses and attendants will have every facility to speed the recovery of those in their care.

Every piece of Colson Hospital Equipment is designed to operate easily, to roll quietly, to be attractive in appearance, and to stand years of constant service. Special conditions are quickly met by Colsons designing engineers to give each hospital whatever it needs to help serve humanity better.

Invalid chairs are built for surpassing comfort. Steel frames and quality oak bodies give strength and years of extra service. Ball bearing wheels make them easier to handle; and large oversized cushion rubber tires and springs make riding a pleasure for the patient. Safety is assured by the Colson Anti-tipping Device; and new type leg rests and back rachets make it easy to adjust the chair into comfortable positions. Each wheel chair is provided with rubber bumper equipment to protect the chair and occupant and to prevent damage to other pieces of furniture. Special models for children and others to meet every condition of invalidism are all styled and finished attractively.

Colson casters and wheels on every piece of equipment always assure easy, quiet operation. Ranging in size from small one inch furniture casters to large eight and ten inch industrial truck wheels, they fit all types of portable equipment. Ball bearings help them roll easily under the heaviest loads; and rubber tires prevent floor damage and increase quietness. Bed casters have bumper wheels, lock brakes, and adjustable adapters or extension shanks as desired. Special types also fit X-Ray machines, lamps, tables and other hospital units.

Colson also makes serving trucks, dressing carts, wheel stretchers, linen service trucks, wheeled hampers for soiled linen, instrument tables, and heavy duty trucks to meet every requirement. All are strongly made and will last for years without racking or getting out of shape. They are attractively finished, of pleasing appearance, and harmonize with any surroundings.

For the sick room, Colson manufactures bedside tables, over-bed tables and rubber bumpers to prevent portable equipment from damaging furniture and fixtures. Bed bumpers, attachable without removing casters, fit just above the casters and keep the bed from marring walls. Another very useful piece of hospital equipment is the Colson Safety Inhalator, which is an electrically operated vaporizer for use in treating diphtheria, whooping cough, asthma, bad colds, and relative ailments.

The Colson Company operates branch offices and warehouses in the principal cities of the United States and in Canada is represented by The Canadian Fairbanks-Morse Co., Limited, with offices in leading cities.

Aluminum "Waterless" Cooking Units for Hospitals

The Super Health Aluminum Company, Limited, now have ready for distribution among hospitals, sanatoriums and allied institutions a catalogue depicting different types of "Waterless" Cooking Units designed to suit their special requirements in the matter of size and construction. It is interesting to note that certain tests conducted by the company itself and users of these "Waterless" Cooking Units would indicate that their use materially cuts down fuel bills and eliminates to a considerable extent the shrinkage which ordinarily occurs.

In addition to the savings effected thereby, it is pointed out that the use of Super Health "Waterless" Cooking Units makes it possible to serve all foods with their full, natural flavour and mineral elements, to save time in cooking, to eliminate an unnecessarily heated condition in the kitchen, to eliminate cooking odours, to effect economy in the replacement of cooking units.

"Waterless" Cooking Units are sand cast in one solid piece and hand processed from the best British aluminium, and they are made in Canada by Canadian labour with Canadian capital. A consulting service to architects is one of the special services offered by the Super Health Aluminum Company Limited, who will be glad to assist them in their kitchen equipment problems.

Among the items of kitchen equipment available for institutional use are deep cauldrons (4 to 25 gallons); shallow cauldrons (6½ to 12½ gallons); panniers (2½ and 4 gallons); roasters for top stove roasting in three sizes; Super Health Steam Heated Units for quantity cooking; hot plates in three sizes for grilling chops, steaks, etc., and for pancakes, griddlecakes, toast, crumpets, etc.; fry pans in four sizes; saute pans in four sizes with capacity ranging from 3 to 12 pints; steam roasters for quantity cooking, and smaller pieces classed as a "household line," many of which would be found useful in institutional kitchens. This household line includes such items as triplicate sets, large and small tea kettles, coffee pots, fry pans in three sizes, casseroles, sauce pans of 3, 4, 6 and 8 quart capacities, double fry or cake pans, oval roasters, oblong roasters and griddles.

For further information you are invited to write the Super Health Aluminum Company Limited, 107 McGill Street, Toronto. There are branches of this company throughout Canada.

MONTREAL, P.Q. — Definite expansion of the building and general hospital facilities of the Jeanne d'Arc Hospital is marked by specific work on a three-storey extension to the U-shaped structure which will cost in the neighbourhood of \$225,000. It is expected that the construction will be completed early in May. Canadian materials have been specified throughout.

* * *

SASKATOON, SASK. — With the opening of a clinic on January 4th for the treatment of cancer by radium, the provincial government has made ample provision for the treatment of this dread disease. The province now owns \$100,000 worth of radium, has an emanation plant at the University, a Regina Clinic, which was opened on December 21st, and the Saskatoon Clinic recently opened.

A DIRECTORY OF EQUIPMENT and SUPPLIES FOR HOSPITAL BUYERS

NOTE:—It is the aim of the Publishers to make this Directory a complete reference to Manufacturers and Distributors who cater to the requirements of Hospitals and Sanatoriums throughout the country. The Publishers, however, do not guarantee its accuracy or completeness, but will gladly list in the succeeding Reference Book reputable firms who submit the necessary information.

*For Convenient Reference the Listings are Divided into Six
Sections as Follows:*

SECTION A—Page 49

**Building Equipment.
(Permanent Fixtures).**

SECTION B—Page 51

**Office Equipment, General Equip-
ment, Furnishings and Supplies.**

SECTION C—Page 56

**Clinical and Scientific Equipment
and Supplies.**

SECTION D—Page 60

**Food Service Equipment, Utensils
and Supplies.**

SECTION E—Page 63

Foods and Beverages.

SECTION F—Page 65

Laundry Equipment and Supplies.

SECTION A

AIR CONDITIONING SYSTEMS

Canadian Blower & Forge Co., Ltd., Kitchener, Ont.
Canadian Sirocco Co., Ltd., Windsor.
Darling Bros., Ltd., Montreal.
Linde Canadian Refrigeration Co., Ltd., Montreal.
Sheldon's Limited, Galt, Ont.
B. F. Sturtevant Co. of Canada, Ltd., Galt, Ont.

AUDITORIUM SEATS

Adams Furniture Co., Ltd., Toronto.
Metal Craft Co., Ltd., Grimsby.
Robert Simpson Co., Ltd., Toronto.
Canadian Office & School Furniture Co., Ltd., Preston,
Ont.
W. J. Craig, Toronto.
Globe Furniture Co., Ltd., Waterloo, Ont.
Valley City Seating Co., Ltd., Dundas, Ont.

AUTOMATIC SPRINKLERS

Automatic Sprinkler Co. of Canada, Ltd., Montreal.
Grinnell Co. of Canada, Ltd., Toronto.

BATHROOM ACCESSORIES

Tools & Hardware Ltd., Orillia, Ont.
Canadian Brass Co., Ltd., Galt, Ont.
Crane, Ltd., Montreal.
Empire Brass Mfg. Co., Ltd., Toronto.
Gendron Mfg. Co., Ltd., Toronto.
James Morrison Brass Mfg. Co., Ltd., Toronto.
Mueller Limited, Sarnia, Ont.
James Robertson Co., Ltd., Toronto.
Standard Sanitary Mfg. Co., Ltd., Toronto.
Wallaceburg Brass & Iron Mfg. Co., Ltd., Wallaceburg,
Ont.

CABINETS, METAL

Dennisteel Limited, London, Ont.
Metal Craft Co., Ltd., Grimsby, Ont.
Office Specialty Mfg. Co., Ltd., Newmarket, Ont.
Standard Tube Co., Ltd., Woodstock, Ont.
Steel Equipment Co., Ltd., Ottawa.

CALL SYSTEMS

Chicago Signal Co., Chicago.
Connecticut Telephone & Electrical Co., Meriden, Conn.
Edwards & Co., Montreal.
Holtzer-Cabot Electric Co., Roxbury, Mass.
Northern Electric Co., Ltd., Montreal.

CHUTES

Mathews Conveyor Co., Ltd., Port Hope, Ont.

COLD STORAGE ROOMS

Canadian Ice Machine Co., Ltd., Toronto.
J. L. Wilson & Sons, Limited, Toronto.
Canadian Carbondale Co., Ltd., Toronto.
Can. Jewett Refrigerator Co., Ltd., Bridgeburg, Ont.

DOORS, VENEER

Hay & Co., Ltd., Woodstock, Ont.

DRINKING FOUNTAINS

Architectural Bronze & Iron Works, Toronto.
Crane, Limited, Montreal.
Mueller, Limited, Sarnia, Ont.
Port Hope Sanitary Mfg. Co., Ltd., Toronto.

DUMBWAITERS

Darling Bros., Ltd., Montreal.
Mathews Conveyor Co., Ltd., Port Hope, Ont.
Otis-Fensom Elevator Co., Ltd., Hamilton.
Roelofson Elevator Works, Galt, Ont.
Turnbull Elevator Co., Ltd., Toronto.

ELEVATORS, PASSENGER

Cober-Thompson Elevator Co., Ltd., Toronto.
Darling Bros., Ltd., Montreal.
Otis-Fensom Elevator Co., Ltd., Hamilton.
Turnbull Elevator Co., Ltd., Toronto.

ELEVATORS, FREIGHT

Cober-Thompson Elevator Co., Ltd., Toronto.
Darling Bros., Ltd., Montreal.
Otis-Fensom Elevator Co., Ltd., Hamilton.
Turnbull Elevator Co., Ltd., Toronto.

FANS, CEILING AND PORTABLE

Canadian General Electric Co., Ltd., Toronto.
Canadian Westinghouse Co., Ltd., Hamilton.
Northern Electric Co., Ltd., Montreal.
Robbins & Myers Co. of Canada, Ltd., Brantford, Ont.

FILTERS, WATER

Jas. Morrison Brass Mfg. Co., Ltd., Toronto.
Riley Engineering & Supply Co., Ltd., Toronto.

FIRE ALARMS

Automatic Sprinkler Co. of Canada Ltd., Toronto.
Holtzer-Cabot Electric Co., Roxbury, Mass.
Northern Electric Co., Ltd., Montreal.

FIRE ESCAPES, TUBULAR

Corporate Steel Products Ltd., Montreal.

FIRE PROTECTION APPARATUS

LaFrance Fire Engine & Foamite, Ltd., Toronto.
 B. H. Montgomery Hose Reel Co., Toronto.
 Northern Electric Co., Ltd., Montreal.
 Pyrene Mfg. Co. of Canada, Ltd., Toronto.

FLOORING, RUBBER

Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
 Alex Murray & Co., Ltd., Montreal.
 Can. Consolidated Rubber Co., Ltd., Montreal.
 North British Rubber Co., Ltd., Toronto.

FIXTURES, ELECTRICAL

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 T. Eaton Co., Ltd., Toronto.
 Metal Studios Ltd., Hamilton, Ont.
 Robt. Mitchell Co., Ltd., Montreal.
 Jas. Morrison Brass Mfg. Co., Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.

HEATING SYSTEMS

C. A. Dunham Co., Ltd., Toronto.

INCINERATORS

T. G. Griffith, Ltd., Toronto.
 Reid & Brown Structural Steel & Iron Works, Ltd., Toronto.

INTERCOMMUNICATING SYSTEMS

Northern Electric Co., Ltd., Montreal.
 Telautograph Corp., Toronto.

LIGHTING SYSTEMS, COMPLETE

Delco Light Co. of Canada, Ltd., Toronto.
 T. G. Griffith, Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.
 Canadian Fairbanks-Morse Co., Ltd., Montreal.
 Amalgamated Electric Corp'n., Ltd., Toronto.

LINOLEUM, BATTLESHIP

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Barry & Staines Linoleum (Canada), Ltd., Farnham, Ont.
 Dominion Oilcloth & Linoleum Co., Ltd., Montreal.
 T. Eaton Co., Ltd., Toronto.

LOCKERS, STEEL

Dennisteel Ltd., London, Ont.
 Metal Craft Co., Ltd., Grimsby, Ont.
 Office Specialty Mfg. Co., Ltd., Toronto.
 Dominion Steel Equipment Co., Toronto.
 Steel Equipment Co., Ltd., Ottawa.

OIL HEATING SYSTEMS

T. G. Griffith, Ltd., Toronto.
 Coleman Lamp & Stove Co., Ltd., Toronto.
 Darling Bros., Ltd., Montreal.
 Fess Oil Burners of Canada, Ltd., Toronto.

PARTITIONS**Steel**

Dennisteel Limited, London, Ont.
 Metal Craft Co., Ltd., Grimsby, Ont.
 Office Specialty Mfg. Co., Ltd., Toronto.

Veneer

Hay & Co., Ltd., Woodstock, Ont.

PLUMBING SUPPLIES

Crane Limited, Montreal.
 Empire Brass Mfg. Co., Ltd., Toronto.
 Purdy-Mansell, Ltd., Toronto.
 James Robertson Co., Ltd., Toronto.
 Standard Sanitary Mfg. Co., Ltd., Toronto.

POWER PLANT SPECIALTIES

C. A. Dunham Co., Ltd., Toronto.

RADIATORS

Dominion Radiator & Boiler Co., Ltd., Toronto.
 Gurney Foundry Co., Ltd., Toronto.
 King, Warden, Limited, Montreal.
 Pease Foundry Co., Ltd., Toronto.
 Taylor-Forbes Co., Ltd., Guelph, Ont.

REFRIGERATORS

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Canadian Jewett Refrigerator Co., Bridgeburg, Ont.
 Eureka Mfg. Co., Ltd., Owen Sound, Ont.
 General Steel Wares Ltd., Toronto.

Linde Canadian Refrigeration Co., Ltd., Montreal.
 Ruddy Mfg. Co., Ltd., Brantford, Ont.
 Sanderson-Harold Co., Ltd., Paris, Ont.

REFRIGERATING MACHINERY

Canadian Ice Machine Co., Ltd., Toronto.
 Frigidaire Corporation, Toronto.
 Kelvinator Co. of Canada, London, Ont.
 J. L. Wilson & Sons, Ltd., Toronto.
 Can. Carbondale Co., Ltd., Toronto.
 Hewitt Mfg. Co., Ltd., Toronto.
 Linde Canadian Refrigeration Co., Ltd., Montreal.

RUBBER FLOORING

Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
 Alex. Murray & Co., Ltd., Montreal.
 Can. Consolidated Rubber Co., Ltd., Montreal.

SCRUBBING MACHINES

Continental Car-Na-Var Corp'n., Toronto.
 Dustbane Products, Limited, Ottawa.
 Finnell System, Inc., Elkhart, Ind.
 G. H. Wood & Co., Ltd., Toronto.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 Frank P. Lalonde Co., Montreal.

SHOWERS, SINKS, URINALS

Crane Limited, Montreal.
 Empire Brass Mfg. Co., Ltd., Toronto.
 Purdy-Mansell, Ltd., Toronto.
 James Robertson Co., Ltd., Toronto.
 Standard Sanitary Mfg. Co., Ltd., Toronto.

STEAM SPECIALTIES

C. A. Dunham Co., Ltd., Toronto.
 Darling Bros., Ltd., Montreal.
 Jenkins Bros., Ltd., Montreal.
 Penberthy Injector Co., Ltd., Windsor, Ont.
 Riley Engineering & Supply Co., Ltd., Toronto.

STEAM TRAPS, FOR STERILIZERS, ETC.

C. A. Dunham Co., Ltd., Toronto.

STEEL SHELVING

Dennisteel Limited, London, Ont.
 Office Specialty Mfg. Co., Ltd., Toronto.

STERILIZERS

Adams Furniture Co., Ltd., Toronto.
 Castle, Wilmot Company, Rochester, N. Y.
 J. F. Hartz Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 American Sterilizer Co., Erie, Pa.
 Barnstead Still & Sterilizer Co., Inc., Boston.
 Kny-Scheerer Corporation, New York.
 Scanlan-Morris Company, Madison, Wis.
 Bramhall Deane Co., New York.

STILLS, WATER

Can. Laboratory Supplies, Ltd., Toronto.
 Castle, Wilmot Company, Rochester, N. Y.
 J. F. Hartz Co., Ltd., Toronto.
 Barnstead Mfg. Co., Boston.
 Barnstead Still & Sterilizer Co., Inc., Boston.

TELEPHONES, INTERCOMMUNICATING

Northern Electric Co., Ltd., Montreal.
 Stromberg-Carlson Telephone Mfg. Co. of Canada, Ltd., Toronto.

VACUUM CLEANERS**Stationary**

B. F. Sturtevant Co. of Canada, Ltd., Galt, Ont.

VACUUM PUMPS, HEATING

C. A. Dunham Co., Ltd., Toronto.

VAULT DOORS

J. & J. Taylor, Ltd., Toronto.
 Goldie & McCulloch Co., Ltd., Galt.

WATER SOFTENERS

T. G. Griffith, Ltd., Toronto.
 McLelland Engineering Co., Toronto.
 Riley Engineering & Supply Co., Ltd., Toronto.
 Wayne Pump & Tank Co., Ltd., Toronto.
 W. J. Westaway Co., Ltd., Hamilton, Ont.

WEATHERSTRIPS

Chamberlain Metal Weatherstrip Co., Ltd., Kingsville, Ont.
 Higgin Mfg. Co., Toronto.
 Wm. Peace Co., Ltd., Hamilton.
 Window Strip & Supply Co., Montreal.

SECTION B

GENERAL EQUIPMENT, FURNISHINGS AND SUPPLIES

ACCOUNTING SYSTEMS

Office Specialty Mfg. Co., Ltd., Toronto.
Grand & Toy, Ltd., Toronto.
Kardex, Ltd., Toronto.
R. J. Lovell Co. Ltd., Toronto.

ADDING MACHINES

Burroughes Adding Machine Co. of Canada, Ltd., Toronto.
McCaskey Systems Ltd., Galt, Ont.
United Typewriter Co., Ltd., Toronto.

AIR CONDITIONERS

Dustbane Products, Ltd., Ottawa.
G. H. Wood & Co., Ltd., Toronto.
Associated Chemical Co. of Canada, Ltd., Toronto.
Frank P. Lalonde Co., Montreal.
Soclean Limited, Toronto.

APRONS, NURSES'

Corbett-Cowley, Ltd., Toronto.

Aprons, Men's Work

J. H. Haugh Mfg. Co., Ltd., Toronto.
Palmer, McLellan Shoe Pack Co., Fredericton, N.B.
Scythes & Co., Ltd., Toronto.

BANDAGE CUTTERS

Eastman Machine Co., Buffalo.
W. J. Westaway Co., Ltd., Hamilton.

BASKETS, WASTE

Dustbane Products, Ltd., Ottawa.
Office Specialty Mfg. Co., Ltd., Toronto.
General Steel Wares, Ltd., Toronto.
Niagara Hy-Tools, Ltd., Bridgeburg, Ont.
Soclean, Limited, Toronto.
Steel Equipment Co., Ltd., Ottawa.

BATH ROBES

Corbett-Cowley, Ltd., Toronto.

BED CUSHIONS

Canadian Feather & Mattress Co., Ltd., Toronto.

BEDS, DRESSERS, CHAIRS

Adams Furniture Co., Ltd., Toronto.
Hespeler Furniture Co., Ltd., Hespeler, Ont.
Jacques Furniture Co., Ltd., Kitchener, Ont.
North American Furniture Co., Ltd., Owen Sound, Ont.
North American Bent Chair Co., Ltd., Owen Sound, Ont.
Robert Simpson Co., Ltd., Toronto.
W. J. Craig, Toronto.
Dominion Furniture Mfrs., Ltd., Ste. Therese, Que.
Eastern Furniture Co., Ltd., Victoriaville, Que.
T. Eaton Co., Ltd., Toronto.
Gibbard Furniture Shops, Ltd., Nanawee, Ont.
Knechtels Limited, Hanover, Ont.
H. Krug Furniture Co., Ltd., Kitchener.
McLagan Furniture Co., Ltd., Stratford, Ont.
J. Oliver & Sons, Ltd., Ottawa, Ont.
Parkhill Bedding, Ltd., Winnipeg.
Peppler Bros. Furniture Co., Ltd., Hanover, Ont.
Simmons Limited, Montreal.
Victoriaville Furniture, Ltd., Victoriaville, Que.

BILLING MACHINES

Burroughes Adding Machine Co. of Can., Ltd., Toronto.
United Typewriter Co., Ltd., Toronto.

BLANKETS**Wool**

Adams Furniture Co., Ltd., Toronto.
Ayers Limited, Lachute Mills, Que.
Robert Simpson Co., Ltd., Toronto.
Barrington Woollen Mills, Barrington, N.S.
Bates & Innes, Ltd., Carleton Place, Ont.
T. Eaton Co., Ltd., Toronto.
Frenchmaide-Kassab Co., Ltd., Toronto.
Harvey Bros., Limited, Montreal.
Kenwood Mills, Ltd., Arnprior, Ont.
Penmans Limited, Paris, Ont.
Porritts & Spencer (Canada) Ltd., Hamilton.
Slingsby Mfg. Co., Ltd., Brantford.
Textile Products Co., Toronto.

Cotton

Adams Furniture Co., Ltd., Toronto.
Robert Simpson Co., Ltd., Toronto.
Canadian Cottons, Ltd., Montreal.
Dominion Textile Co., Ltd., Montreal.
Textile Products Co., Toronto.

BOARDS, BULLETIN

Art Interchangeable Sign Co., Ltd.
Canada Decalcomania Co., Ltd., Toronto.

BOOKCASES, SECTIONAL

Office Specialty Mfg. Co., Ltd., Toronto.
Canada Furniture Mfrs., Ltd., Woodstock.
Preston, Noelting, Ltd., Stratford, One.

BROOMS

Dustbane Products Ltd., Ottawa.
Associated Chemical Co. of Canada, Ltd., Toronto.
Canada Broom Co., Montreal.
Canadian National Institute for the Blind, Toronto.
Frank P. Lalonde Co., Montreal.
Soclean Limited, Toronto.

BRUSHES**Cleaning**

Dustbane Products Ltd., Ottawa.
Associated Chemical Co. of Canada, Ltd., Toronto.
Boeckh Co., Ltd., Toronto.
Canada Brush Co., Ltd., St. John, N.B.
Frank P. Lalonde Co., Montreal.
T. S. Simms & Co., Ltd., St. John, N.B.
Soclean Limited, Toronto.

Paint

Boeckh Co., Ltd., Toronto.
Canada Brush Co., Ltd., St. John, N.B.
London Brush Co., Ltd., London.
Meakins Sons, Ltd., Hamilton.
Rubberset Co., Ltd., Toronto.
T. S. Simms & Co., Ltd., St. John, N.B.

CABINETS**Chart, History**

Hospital & Kitchen Equipment Co., Ltd., Toronto.
Metal Craft Co., Ltd., Grimsby.
Office Specialty Mfg. Co., Ltd., Toronto.
Standard Tube Co., Ltd., Woodstock, Ont.
J. & J. Taylor, Ltd., Toronto.

CAFE FURNITURE

W. J. Craig, Toronto.
I. G. Pickering Co., Ltd., Toronto.
Sani-Products Co., Ltd., Toronto.

CAPS, NURSES'

Corbett-Cowley, Ltd., Toronto.
Robert Simpson Co., Ltd., Toronto.

CASTERS

Clark Metals Ltd., Belleville, Ont.
Colson Co., Elyria, Ohio.
Bond Engineering Works, Ltd., Toronto.
Brantford Oven & Rack Co., Ltd., Brantford.
Darnell Corp'n. of Can., Ltd., Toronto.
Faultless Caster Co., Stratford, Ont.
McKinlay Co., Toronto.
National Hardware Co., Ltd., Orillia, Ont.
Toronto Lock Mfg. Co., Toronto.

CASTERS, SLIDING

Metal Craft Co., Ltd., Grimsby, Ont.
Bond Engineering Works, Ltd., Toronto.
Canada Foundries & Forgings, Ltd., Brockville, Ont.
Onward Mfg. Co., Ltd., Kitchener, Ont.

CHAIRS, AUTOMATIC

De Luxe Upholstering Co., Ltd., Kitchener, Ont.

CHAIRS, DINING

North American Furniture Co., Ltd., Owen Sound, Ont.

CHAIRS, WHEEL

Adams Furniture Co., Ltd., Toronto.
Colson Co., Elyria, Ohio.
J. F. Hartz Co., Ltd., Toronto.
Robert Simpson Co., Ltd., Toronto.
Canadian Fairbanks Morse Co., Ltd., Montreal.
Gendron Mfg. Co., Ltd., Toronto.
Ingram & Bell Ltd., Toronto.

CLEANSING AGENTS**Hand**

Dustbane Products, Ltd., Ottawa.
G. H. Wood & Co., Ltd., Toronto.
Associated Chemical Co. of Canada, Ltd., Toronto.
Albert Soaps, Ltd., Montreal.
Alpha Chemical Co., Ltd., Kitchener, Ont.
Canadian Chemical Co., Ltd., Vancouver.
Frank P. Lalonde Co., Montreal.
The Levis, Toronto.
Snap Co., Ltd., Montreal.
Soclean Limited, Toronto.
Standard Brands Ltd., Toronto.

Kitchen, Floor, etc.

Dustbane Products, Ltd., Ottawa.
G. H. Wood & Co., Ltd., Toronto.
Associated Chemical Co. of Canada, Ltd., Toronto.
Alpha Chemical Co., Ltd., Kitchener, Ont.
Bon-Ami, Ltd., Montreal.
Cudahy Packing Co., Toronto.
Diamond Cleanser, Ltd., Toronto.
Frank P. Lalonde Co., Montreal.
The Levis, Toronto.
S. F. Lawrason & Co., London, Ont.
Royal Crown Soaps, Ltd., Winnipeg.
Snap Co., Ltd., Montreal.
Soclean Limited, Toronto.

Water and Drain Pipe

Dustbane Products, Ltd., Ottawa.
Associated Chemical Co. of Canada, Ltd., Toronto.
Canadian Germicide Co., Ltd., Toronto.
Soclean Limited, Toronto.
Standard Brands Ltd., Toronto.

CLOTHING, COOKS'

Corbett-Cowley, Ltd., Toronto.

COMFORTERS

Canadian Feather & Mattress Co., Ltd., Toronto.
Robert Simpson Co., Ltd., Toronto.
Corbett-Cowley, Ltd., Toronto.
Globe Bedding Co., Ltd., Winnipeg.
Geo. H. Hees, Son & Co., Ltd., Toronto.
Montreal Feather & Down Co., Montreal.
Toronto Feather & Down Co., Ltd., Toronto.

COOLERS, WATER

Geo. R. Prowse Range Co., Ltd., Montreal.
G. H. Wood & Co., Ltd., Toronto.
Thos. Davidson Mfg. Co., Ltd., Montreal.
General Steel Wares Ltd., Toronto.
Frank P. Lalonde Co., Montreal.
Perfection Cooler Co., Ltd., Toronto.
Wrought Iron Range Co., Ltd., Toronto.

*"They're Really
Wonderful"*



Ayers 100% Wool

SPECIALLY WOVEN PRE-SHRUNK BLANKETS

For many years Ayers have been making Blankets to order for Hospitals, Hotels and Institutions that give simply amazing service and satisfaction. They are woven from the purest of pure wool, by a special process that makes them as unshrinkable as Blankets can be. Hard wear and frequent washings seem to take nothing from their comforting warmth. From the standpoint of cost they are sterling value.

We will gladly
quote prices
and submit
samples. Write

Ayers
LIMITED
Established 1870
Lachute Mills, P.Q.

COTS, METAL

Atlas Metal Bed Mfg. Co., Ltd., Montreal.
Ives Bedding Co., Ltd., Cornwall.
Simmons, Limited, Montreal.

CURTAIN MATERIAL

Adams Furniture Co., Ltd., Toronto.
Robert Simpson Co., Ltd., Toronto.
Daly & Morin, Ltd., Montreal.
Geo. H. Hees, Son & Co., Ltd., Toronto.

CURLED HAIR FOR MATTRESSES

Delany & Pettit, Ltd., Toronto.

CUTTERS, GAUZE

Eastman Machine Co., Buffalo.
J. F. Hartz, Ltd., Toronto.
Brown Engineering Corp'n., Ltd., Toronto.
H. Naimin Co., Inc., New York.
W. J. Westaway Co., Ltd., Hamilton.

DESKS

North American Furniture Co., Ltd., Owen Sound, Ont.
Office Specialty Mfg. Co., Ltd., Toronto.
Canada Furniture Mfrs. Co., Ltd., Toronto.
Canadian Office & School Furniture Co., Ltd., Preston, Ont.
Preston Noelting, Ltd., Stratford, Ont.

DIPLOMAS

Ames & Rollison, New York.
Alexander & Cable Lithographing Co., Ltd., Toronto.
Midland Bank Note Co., Des Moines, Ia.

DISINFECTANTS

Dustbane Products, Ltd., Ottawa.
J. F. Hartz Co., Ltd., Toronto.
Lysol (Canada), Ltd., Toronto.
Merck & Co., Inc., Montreal.
G. H. Wood & Co., Ltd., Toronto.
Associated Chemical Co. of Canada, Ltd., Toronto.
Canadian Germicide Co., Ltd., Toronto.

Please refer to THE CANADIAN HOSPITAL when writing

Hygiene Products, Ltd., Montreal.
 Frank P. Lalonde Co., Montreal.
 The Levis, Toronto.
 Polusterine Products Co. of Canada, Ltd., Toronto.
 Soclean Limited, Toronto.
 West Disinfecting Co., Montreal.
 Woods Chemicals, Ltd., Montreal.

DISPENSERS

Liquid Soap

Dustbane Products, Ltd., Ottawa.
 J. F. Hartz Co., Ltd., Toronto.
 G. H. Wood & Co., Ltd., Toronto.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 Canadian Germicide Co., Ltd., Toronto.
 Huntington Laboratories of Can., Ltd., Toronto.
 Frank P. Lalonde & Co., Ltd., Toronto.
 Soclean Limited, Toronto.

DRESSERS, STEEL

Standard Tube Co., Ltd., Woodstock, Ont.

FILING EQUIPMENT

Office Specialty Mfg. Co., Ltd., Toronto.
 Canada Furniture Mfrs., Ltd., Woodstock, Ont.
 Canadian Office & School Furniture Co., Ltd., Preston, Ont.
 Preston Noelting Ltd., Stratford, Ont.
 Steel Equipment Co., Ltd., Ottawa.

FLOOR POLISH AND WAX

Continental Car-Na-Var Corp., Toronto.
 Dustbane Products, Ltd., Ottawa.
 Finnell System, Inc., Elkhart, Ind.
 G. H. Wood & Co., Ltd., Toronto.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 Canadian Germicide Co., Ltd., Toronto.
 Channell, Ltd., Toronto.
 Geo. Cooke Co., Ltd., Toronto.
 S. C. Johnson & Son, Ltd., Brantford, Ont.
 The Levis, Toronto.
 Soclean Limited, Toronto.
 Reckitts (Oversea), Ltd., Montreal.

FLOOR FINISH

Continental Car-Na-Var Corp., Toronto.
 G. H. Wood & Co., Ltd., Toronto.

FURNITURE, UPHOLSTERED

Adams Furniture Co., Ltd., Toronto.
 De Luxe Upholstering Co., Ltd., Kitchener, Ont.
 Kroehler Mfg. Co., Ltd., Stratford, Ont.
 North American Furniture Co., Ltd., Owen Sound, Ont.
 Robert Simpson Co., Ltd., Toronto.
 Woeller Upholstering Co., Ltd., Kitchener, Ont.

GLOVES, RUBBER

J. F. Hartz Co., Ltd., Toronto.
 Sterling Rubber Co., Ltd., Guelph, Ont.
 Canadian Consolidated Rubber Co., Ltd., Montreal.

GOWNS: PATIENTS', OPERATING

Corbett-Cowley, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Bland & Co., Ltd., Montreal.

INSECTICIDES

Dustbane Products, Ltd., Ottawa.
 G. H. Wood & Co., Ltd., Toronto.
 Aetna Fumigating & Chemical Co., Montreal.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 Alpha Chemical Co., Ltd., Kitchener, Ont.
 Canadian Germicide Co., Ltd., Toronto.
 Frank P. Lalonde Co., Montreal.

INVALID CHAIRS

Adams Furniture Co., Ltd., Toronto.
 The Colson Co., Elyria, Ohio.
 J. F. Hartz Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Canadian Fairbanks-Morse Co., Ltd., Montreal.
 Gendron Mfg. Co., Ltd., Toronto.

LABELS, WOVEN

J. & J. Cash, Inc., Belleville.
 Narrow Fabric Weaving & Dyeing, Ltd., Galt, Ont.

LAMPS, INCANDESCENT

Canadian General Electric Co., Ltd., Toronto.
 Canadian Laco Lamps, Ltd., Montreal.
 Canadian Westinghouse Co., Ltd., Hamilton.
 Northern Electric Co., Ltd., Montreal.
 Solex Company, Ltd., Montreal.

Sterling Surgeons Globes

"CANADIAN MADE — UNSURPASSED"



Sterling Chocolate Colored or Nurses Gloves

for post mortem work, will give entire satisfaction.

Specialists in Surgeons' Gloves for 18 Years.

Sterling Rubber Company

LIMITED

GUELPH - CANADA

Largest Specialists in SEAMLESS Rubber Gloves
in the British Empire

LINENS, BED

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Canadians Cottons, Ltd., Montreal.
 Wm. H. Currie, Toronto.
 Dominion Linens, Ltd., Guelph, Ont.
 Dominion Textile Co., Ltd., Montreal.
 Robinson, Harvey C., Toronto.
 Textile Products Co., Toronto.
 Wabasco Cotton Co., Ltd., Three Rivers, Que.

LINEN MARKING EQUIPMENT

Beaver Laundry Machinery Co., Ltd., Toronto.

MATS AND MATTING, RUBBER

Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
 Canadian Consolidated Rubber Co., Ltd., Montreal.
 Gutta Percha & Rubber, Ltd., Toronto.
 Seiberling Rubber Co. of Canada, Ltd., Toronto.
 Viceroy Mfg. Co., Ltd., Toronto.

MATTRESS COVERS

Corbett-Cowley, Ltd., Toronto.
 Marshall Ventilated Mattress Co., Ltd., Toronto.
Waterproof
 Marshall Ventilated Mattress Co., Ltd., Toronto.

MATTRESSES

Adams Furniture Co., Ltd., Toronto.
 Canadian Feather & Mattress Co., Ltd., Toronto.
 Marshall Ventilated Mattress Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Arrow Bedding, Ltd., Toronto.
 Comfort Feather & Mattress Co., Ltd., Toronto.
 T. Eaton Co., Ltd., Toronto.
 Gold Medal Bedding Co., Ltd., Montreal.
 Parkhill Bedding Ltd., Winnipeg.
 Simmons, Ltd., Montreal.
 Standard Bedding Co., Ltd., Toronto.
 Waterloo Bedding Co., Ltd., Waterloo, Ont.

Please refer to THE CANADIAN HOSPITAL when writing

MEMORIAL TABLETS

Architectural Bronze & Iron Works, Toronto.
 Dominion Bronze & Iron, Ltd., Winnipeg.
 Robt. McCausland, Ltd., Toronto.
 Robt. Mitchell Co., Ltd., Montreal.
 Patterson & Heward, Ltd., Toronto.

METAL FURNITURE

Metal Craft Co., Ltd., Grimsby, Ont.
 Standard Tube Co., Ltd., Woodstock, Ont.
 Simmons, Ltd., Montreal.

MOPS, COTTON

Dustbane Products, Ltd., Ottawa.
 American Broom Co., St. Basile, Que.
 Canada Broom Co., Montreal.
 Canadian Germicide Co., Ltd., Toronto.
 Channell Limited, Toronto.
 Frank P. Lalonde Co., Montreal.
 T. S. Simms & Co., Ltd., St. John, N.B.
 Soclean Limited, Toronto.

NAMES, WOVEN

J. & J. Cash, Inc., Belleville.
 Narrow Fabric Weaving & Dyeing, Ltd., Galt.

OIL CLOTH, TABLE AND FLOOR

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Dominion Oilcloth & Linoleum Co., Ltd., Montreal.

OVERTHROWS

Ayers Limited, Lachute Mills, Que.
 Textile Products Co., Toronto.

PAIS, GALVANIZED

Dustbane Products, Ltd., Ottawa.
 Thos. Davidson Mfg. Co., Ltd., Montreal.
 General Steel Wares, Ltd., London, Ont.
 Soclean Limited, Toronto.
 E. T. Wright Co., Ltd., Hamilton.

PAIS, WOODEN

Dustbane Products, Ltd., Ottawa.
 Wm. Cane & Sons Co., Ltd., Newmarket, Ont.
 Keenan Woodenware Mfg. Co., Ltd., Owen Sound.
 Pacific Box Co., Ltd., Vancouver.
 Soclean Limited, Toronto.

PAINTS

Glidden Co. Ltd., Toronto.
 Brandram-Henderson, Ltd., Montreal.
 International Varnish Co., Ltd., Toronto.

PAPER GOODS**Paper Cups**

Dustbane Products, Ltd., Ottawa.
 G. H. Wood & Co., Ltd., Toronto.
 Canadian Germicide Co., Ltd., Toronto.
 Continental Paper Products, Ltd., Ottawa.
 Hygienic Products Ltd., Montreal.
 Individual Drinking Cup Co., Toronto.
 Soclean Limited, Toronto.
 Vortex Mfg. Co. (Canada), Ltd., Toronto.

Napkins, Tray Covers

R. B. Hayhoe & Co., Toronto.
 G. H. Wood & Co., Ltd., Toronto.
 E. B. Eddy Co., Ltd., Hull, Que.
 Hygiene Products, Ltd., Montreal.
 Interlake Tissue Mills Co., Ltd., Toronto.

Toilet Tissues

Dustbane Products, Ltd., Ottawa.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 E. B. Eddy Co., Ltd., Hull, Que.
 Garden City Paper Mills Co., St. Catharines, Ont.
 Soclean Limited, Toronto.
 Victoria Paper & Twine Co., Ltd., Toronto.

Paper Towels

G. H. Wood & Co., Ltd., Toronto.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 Brown Corp., Montreal.
 Canadian Germicide Co., Ltd., Toronto.
 Hygiene Products, Ltd., Montreal.
 Interlake Tissue Mills Co., Ltd., Toronto.

PILLOWS

Adams Furniture Co., Ltd., Toronto.
 Canadian Feather & Mattress Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Fischman Spring Co., Kitchener, Ont.
 Globe Bedding Co., Ltd., Winnipeg.



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 Montreal Feather & Down Co., Ltd., Montreal.
 Parkhill Bedding, Ltd., Winnipeg.
 Simmons, Limited, Montreal.
 Textile Products Co., Toronto.
 Toronto Feather & Down Co., Ltd., Toronto.

PINS, NURSES'

J. F. Apple Co., Lancaster, Pa.
 A. E. Edwards, Toronto.
 Ellis Brothers, Ltd., Toronto.
 Trophy Craft, Ltd., Toronto.

RECEPTION ROOM FURNITURE

Adams Furniture Co., Ltd., Toronto.
 North America Furniture Co., Ltd., Owen Sound, Ont.
 Robert Simpson Co., Ltd., Toronto.
 Canada Furniture Mfrs., Ltd., Woodstock, Ont.
 W. J. Craig, Toronto.
 Eastern Furniture Co., Ltd., Victoriaville, Que.
 T. Eaton Co., Ltd., Toronto.
 Elmira Furniture Co., Ltd., Elmira, Ont.
 Gibbard Furniture Shops, Ltd., Napanee, Ont.
 H. Krug Furniture Co., Ltd., Kitchener.
 Imperial Rattan Co., Ltd., Stratford, Ont.
 McLagan Furniture Co., Ltd., Stratford, Ont.

REGISTERS**Nurses', Physicians', etc.**

Art Interchangeable Sign Co., Toronto.

RINGS AND CUSHIONS

J. F. Hartz Co., Ltd., Toronto.
 Canadian Consolidated Rubber Co., Ltd., Montreal.
 Ingram & Bell, Ltd., Toronto.
 Seiberling Rubber Co. of Canada, Ltd., Toronto.

RUGS, TRAVELLING

Ayers, Limited, Lachute Mills, Que.

SAFES

Office Specialty Mfg. Co., Ltd., Toronto.
 J. & J. Taylor Co., Ltd., Toronto.
 Goldie & McCulloch Co., Ltd., Galt, Ont.

Please refer to THE CANADIAN HOSPITAL when writing

SCREENS**Door, Porch, Window**

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Aluminum Bronze Screen Co., Toronto.
 Higgin Mfg. Co., Toronto.
 Ruddy Mfg. Co., Ltd., Brantford, Ont.

Portable

Dennisteel, Ltd., London, Ont.
 North American Furniture Co., Ltd., Owen Sound, Ont.
 Standard Tube Co., Ltd., Woodstock, Ont.

STRETCHERS, WHEEL

Adams Furniture Co., Ltd., Toronto.
 Colson Co., Elyria, Ohio.
 Metal Craft Co., Ltd., Grimsby, Ont.
 Robert Simpson Co., Ltd., Toronto.
 Can. Fairbanks-Morse Co., Ltd., Montreal.
 McKinlay Co., Toronto.

SCRUBBING MACHINES

Continental Chemical Corp., Toronto.
 Dustbane Products, Ltd., Ottawa.
 Finnell System, Inc., Elkhart, Ind.
 G. H. Wood & Co., Ltd., Toronto.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 Frank P. Lalonde Co., Montreal.

SOAPS, ANTISEPTIC LIQUID

Dustbane Products, Ltd., Ottawa.
 J. F. Hartz Co., Ltd., Toronto.
 G. H. Wood & Co., Ltd., Toronto.
 Associated Chemical Co. of Canada, Ltd., Toronto.
 Canadian Germicide Co., Ltd., Toronto.
 Huntington Laboratories of Can., Ltd., Toronto.
 Frank P. Lalonde Co., Montreal.
 West Disinfecting Co., Montreal.
 Woods Chemicals, Ltd., Toronto.

SOAPS, CHIP

Dustbane Products, Ltd., Ottawa.
 Colgate-Palmolive-Peet Co., Ltd., Toronto.
 Guelph Soap Co., Ltd., Guelph, Ont.
 Proctor & Gamble Co. of Canada, Ltd., Toronto.
 Soclean Limited, Toronto.

SOAP DISPENSERS

Dustbane Products, Ltd., Ottawa.
 J. F. Hartz Co., Ltd., Toronto.
 G. H. Wood & Co., Ltd., Toronto.
 Canadian Germicide Co., Ltd., Toronto.
 Huntington Laboratories of Can., Ltd., Toronto.
 Frank P. Lalonde Co., Montreal.
 Soclean Limited, Toronto.

SOAPS, TOILET

Dustbane Products, Ltd., Ottawa.
 G. H. Wood & Co., Ltd., Toronto.
 Albert Soaps, Ltd., Montreal.
 Colgate-Palmolive-Peet Co., Ltd., Toronto.
 Andrew Jergens Co., Ltd., Perth, Ont.
 Lever Bros., Ltd., Toronto.
 Proctor & Gamble Co. of Canada, Ltd., Toronto.
 Royal Crown Soaps, Ltd., Montreal.

SPRINGS, WIRE BED

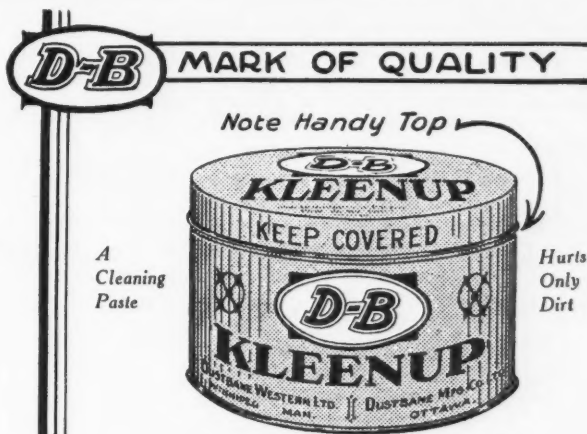
Canadian Feather & Mattress Co., Ltd., Toronto.
 Marshall Ventilated Mattress Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Colleran Spring Bed Co., Ltd., Toronto.
 Dominion Bedstead Co., Ltd., Montreal.
 Gold Medal Furniture Co., Ltd., Toronto.
 Ives Bedding Co., Ltd., Cornwall, Ont.
 Parkhill Bedding, Ltd., Winnipeg.
 Simmons, Ltd., Montreal.
 Way Sagless Spring Co., Ltd., Toronto.

SPRINGS, BOX

Adams Furniture Co., Ltd., Toronto.
 Canadian Feather & Mattress Co., Ltd., Toronto.
 Marshall Ventilated Mattress Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 T. Eaton Co., Ltd., Toronto.
 Arrow Bedding, Ltd., Toronto.
 Simmons, Limited, Montreal.
 Waterloo Bedding Co., Ltd., Waterloo, Ont.

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 Colson Co., Elyria, Ohio.
 T. Eaton Co. Limited, Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Metal Craft Co., Ltd., Grimsby, Ont.
 North American Furniture Co., Ltd., Owen Sound, Ont.
 Robert Simpson Co., Ltd., Toronto.
 Standard Tube Co., Ltd., Woodstock, Ont.
 Canadian Fairbanks Morse Co., Ltd., Montreal.

TOWELS AND TOWELLING

Dominion Fabrics, Ltd., Dunnville, Ont.
 Dominion Linens, Ltd., Guelph, Ont.
 Dominion Textile Co., Ltd., Montreal.
 Montreal Cottons, Ltd., Valleyfield, Que.
 Stauffer-Dobbie Ltd., Galt, Ont.
 Textile Products Co., Toronto.

TRUCKS

Colson Co., Elyria, Ohio.
 Robert Simpson Co., Ltd., Toronto.
 Canadian Fairbanks Morse Co., Ltd., Montreal.
 McKinlay Co., Toronto.

UNIFORMS, NURSES'

Adams Furniture Co., Ltd., Toronto.
 Corbett-Cowley, Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Bland & Co., Ltd., Montreal.
 Cordeste Garments, London, Ont.
 Hampton Mfg. Co., Ltd., Montreal.

VARNISHES

Glidden Co., Ltd., Toronto.
 Brandram-Henderson, Ltd., Montreal.
 International Varnish Co., Ltd., Toronto.

WINDOW SHADES

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Daly & Morin, Ltd., Montreal.
 Hartshorn Stewart Co., Toronto.
 Geo. H. Hees, Son & Co., Ltd., Toronto.

Please refer to THE CANADIAN HOSPITAL when writing

SECTION C

CLINICAL AND SCIENTIFIC APPARATUS AND SUPPLIES

ABSORBENT COTTON AND GAUZE

Canadian Laboratory Supplies, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Herd & Charton, Inc., Montreal.
Robert Simpson Co., Ltd., Toronto.
Smith & Nephew, Ltd., Montreal.
Casgrain & Charbonneau, Ltd., Montreal.
Hygienic Products, Ltd., Montreal.
Ingram & Bell, Limited, Toronto.
Johnson & Johnson, Montreal.
Lewis Mfg. Co. of Canada, Ltd., Toronto.

ADHESIVE PLASTER

Canadian Laboratory Supplies, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Herd & Charton, Inc., Montreal.
Smith & Nephew, Ltd., Montreal.
Casgrain & Charbonneau, Ltd., Montreal.
Ingram & Bell, Limited, Toronto.
Johnson & Johnson, Montreal.
Lewis Mfg. Co. of Canada, Ltd., Toronto.

ALCOHOL

Canadian Industrial Alcohol Co., Ltd., Montreal.
Gooderham & Worts, Ltd., Toronto.
Standard Chemical Co., Ltd., Toronto.

AMBULANCES

A. B. Greer & Son, London, Ont.
Smith Brothers, Toronto.

ANATOMICAL CHARTS

Central Scientific Co. of Canada, Ltd., Toronto.
Denoyer-Geppert Co., Chicago.
J. F. Hartz Co., Ltd., Toronto.
Clay-Adams Co., Inc., New York.
Casgrain & Charbonneau, Ltd., Montreal.
Kny-Scheerer Corp., New York.

ANESTHETICS, CHLOROFORM, ETHER

Cheney Chemicals, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Mallinckrodt Chemical Works, Ltd., Montreal.
Merck & Co., Inc., Montreal.
E. R. Squibb & Sons, of Canada, Ltd., Toronto.
Canada Chemical Works, Ltd., Montreal.
J. A. MacDonald, Phm.B., Toronto.

ANESTHETIC GASES

Cheney Chemicals, Ltd., Toronto.
Queen City Dental Mfrs., Ltd., Toronto.

ANESTHETIC APPARATUS

Cheney Chemicals, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
McKesson Appliances Co., Toledo, Ohio.
Queen City Dental Mfrs., Ltd., Toronto.

ARC LAMPS

Burke Electric & X-Ray Co., Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Westinghouse X-Ray Co., Inc., Long Island City, N. Y.
Chas. A. Branston Co., Toronto.
Britesun, Inc., Chicago.
Burdick Cabinet Co., Milton, Wis.
Kelley-Koett Mfg. Co., Covington, Ky.
Victor X-Ray Corporation of Canada, Ltd., Toronto.

ATOMIZERS

Canadian Consolidated Rubber Co., Ltd., Montreal.
DeVilbiss Mfg. Co., Ltd., Windsor, Ont.

BARIUM SULPHATE

Burke Electric & X-Ray Co., Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Mallinckrodt Chemical Works, Ltd., Montreal.
Merck & Co., Inc., Montreal.
Westinghouse X-Ray Co., Inc., Long Island City, N. Y.
Dick X-Ray Co., St. Louis, Mo.
Kelley-Koett Mfg. Co., Covington, Ky.
H. W. McCurdy Co., Toronto.
Victor X-Ray Corporation of Canada, Ltd., Toronto.

BASSINETTES

Metal Craft Co., Ltd., Grimsby, Ont.
Eastern Furniture Co., Ltd., Victoriaville, Que.

BEDS, ADJUSTABLE

Adams Furniture Co., Ltd., Toronto.
Metal Craft Co., Ltd., Grimsby, Ont.
Robert Simpson Co., Ltd., Toronto.
Simmons, Ltd., Montreal.

BEDS, FRACTURE

De Puy Mfg. Co., Warsaw, Ind.

BLANKET WARMERS

American Sterilizer Co., Erie, Pa.
Crane Company, Ltd., Montreal.
Scanlan-Morris Co., Madison, Wis.

BOOKS, MEDICAL AND NURSING

J. F. Hartz Co., Ltd., Toronto.
Blakiston's Son & Co., Philadelphia.
J. B. Lippincott Co., Montreal.
Macmillan Co. of Canada, Ltd., Toronto.
William Wood & Co., New York.

BOTTLES

Beaver Flint Glass Co. of Toronto, Ltd., Toronto.
Dominion Glass Co., Ltd., Montreal.
Richards Glass Co., Ltd., Toronto.

Hot Water

J. F. Hartz Co., Ltd., Toronto.
Canadian Consolidated Rubber Co., Ltd., Montreal.
Seiberling Rubber Co. of Canada, Ltd., Toronto.
Viceroy Mfg. Co., Ltd., Toronto.

CHARTS, ANATOMICAL

Central Scientific Co. of Canada, Ltd., Toronto.
Denoyer-Geppert Co., Chicago.
J. F. Hartz Co., Ltd., Toronto.
Clay-Adams Co., Inc., New York.

CHEMICAL, REAGENTS

Canadian Laboratory Supplies, Ltd., Toronto.
Central Scientific Co. of Canada, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Fisher Scientific Co., Ltd., Montreal.

COTTON, ABSORBENT

See firms listed under "Absorbent Cotton."

COTS, ALL KINDS

J. F. Hartz Co., Ltd., Toronto.
Sterling Rubber Co., Ltd., Guelph, Ont.

CUTTERS, BANDAGE AND GAUZE

Eastman Machine Co., Buffalo.
J. F. Hartz Co., Ltd., Toronto.
W. J. Westaway, Ltd., Hamilton.
Universal Cutter Co., St. Louis.

DENTAL INSTRUMENTS

Ash Temple Co., Ltd., Toronto.
S. S. White Co. of Canada, Ltd., Toronto.

DENTAL STERILIZERS

J. F. Hartz Co., Ltd., Toronto.
Wilmot Castle Co., Rochester, N. Y.
American Sterilizer Co., Erie, Pa.
Ingram & Bell, Ltd., Toronto.
Kny-Scheerer Corp., New York.
Scanlan-Morris Co., Madison, Wis.

DEEP THERAPY LAMPS

Burke Electric & X-Ray Co., Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Branson, Chas. A., Ltd., Toronto.
Britesun, Inc., Chicago.
Casgrain & Charbonneau, Ltd., Montreal.
Ingram & Bell, Ltd., Toronto.

DEVELOPING TANKS

Burke Electric & X-Ray Co., Ltd., Toronto.
Buck X-Ograph Co., St. Louis.

DIATHERMY APPARATUS

Burke Electric & X-Ray Co., Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Branson, Chas. A., Ltd., Toronto.
Casgrain & Charbonneau, Ltd., Montreal.
General X-Ray Company, Boston.
Victor X-Ray Corp. of Canada, Ltd., Toronto.

DOLLS, HOSPITAL

Denoyer-Geppert Co., Chicago.
J. F. Hartz Co., Ltd., Toronto.
M. J. Chase, Pawtucket, R.I.

DRESSINGS, SURGICAL

J. F. Hartz Co., Ltd., Toronto.
Herdt & Charton, Inc., Montreal.
Smith & Nephew, Ltd., Montreal.
Ingram & Bell, Ltd., Toronto.
Lewis Mfg. Co. of Canada, Ltd., Toronto.

DRAINAGE TUBING

Canadian Laboratory Supplies, Ltd., Toronto.
Central Scientific Co. of Canada, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Herdt & Charton, Inc., Montreal.
Sterling Rubber Co., Ltd., Guelph, Ont.

ENAMELWARE, SURGICAL

J. F. Hartz Co., Ltd., Toronto.
L. D. Cahn Co., New York.
General Steel Wares, Ltd., Toronto.
Vollrath Co., Cheboygan, Wis.
Wright & Co., Toronto.

FORMS, HISTORY, RECORD

J. F. Hartz Co., Ltd., Toronto.
Faithorn Co., Chicago.
R. J. Lovell Co., Ltd., Toronto.

FRACTURE APPLIANCES

De Puy Mfg. Co., Warsaw, Ind.

FUMIGANTS

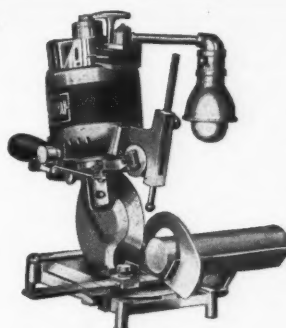
Against Clothes Moths
Merck & Co., Inc., Montreal.

FURNITURE, STEEL

Dennisteel Ltd., London, Ont.
Metal Craft Co., Ltd., Grimsby, Ont.
Office Specialty Mfg. Co., Ltd., Toronto.
Robert Simpson Co., Ltd., Toronto.
Standard Tube Co., Ltd., Woodstock, Ont.
Scanlan-Morris Co., Madison, Wis.
Simmons, Limited, Montreal.
Steel Equipment Co., Ltd., Ottawa.

GAUZE CUTTERS

Eastman Machine Co., Buffalo.
W. J. Westaway, Ltd., Hamilton.
Naimin Co., New York.
Universal Cutter Co., St. Louis.



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Montreal, Que.

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BUFFALO, N.Y.

GLASSWARE, SURGICAL

Canadian Laboratory Supplies Ltd., Toronto.
Central Scientific Co. of Canada, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Fisher Scientific Co., Ltd., Montreal.
V. Mueller & Co., Chicago.
Richards Glass Co., Ltd., Toronto.

GLOVES, SURGEONS', NURSES'

Canadian Laboratory Supplies, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.
Sterling Rubber Co., Ltd., Guelph, Ont.
Canadian Consolidated Rubber Co., Ltd., Montreal.

HOT WATER BOTTLES

J. F. Hartz Co., Ltd., Toronto.
North British Rubber Co., Ltd., Toronto.
Seiberling Rubber Co. of Canada, Ltd., Toronto.
Viceroy Mfg. Co., Ltd., Toronto.

HYDROTHERAPY BATHS

Crane Company, Ltd., Montreal.
Standard Sanitary Mfg. Co., Ltd., Toronto.

IDENTIFICATION METHODS**Name Strips**

Johnson & Johnson, Montreal.

Necklaces

Decknatel, J. A. & Son, Inc., Queen's Village, Long Island, N. Y.

INSTRUMENTS**Illuminated**

J. F. Hartz Co., Ltd., Toronto.
Electro-Surgical Instrument Co., Rochester, N. Y.
Ingram & Bell, Ltd., Toronto.

Operating

J. F. Hartz Co., Ltd., Toronto.
Robert Simpson Co., Ltd., Toronto.
T. Eaton Co., Ltd., Toronto.
Frank S. Betz Co., Hammond, Ind.
Ingram & Bell, Ltd., Toronto.
The Stevens Companies, Ltd., Toronto.

Please refer to THE CANADIAN HOSPITAL when writing

INSTRUMENTS, SCIENTIFIC

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Bausch & Lomb Optical Co., Rochester.
 Frank S. Betz Co., Hammond, Ind.
 Casgrain & Charbonneau, Ltd., Montreal.
 T. Eaton Co., Ltd., Toronto.
 Hughes-Owens Co., Ltd., Montreal.
 Ingram & Bell, Ltd., Toronto.
 Taylor Instrument Companies, Ltd., Toronto.

KNIVES**Detachable Blades**

Bard-Parker Co., Inc., New York.
 J. F. Hartz Co., Ltd., Toronto.

LABORATORY CHEMICALS

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Merck & Co., Inc., Montreal.
 Fisher Scientific Co., Ltd., Montreal.

LABORATORY EQUIPMENT**Apparatus and Supplies**

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Casgrain & Charbonneau, Ltd., Montreal.
 Fisher Scientific Co., Ltd., Montreal.
 Hughes Owens Co., Ltd., Montreal.

LABORATORY FURNITURE

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 Metal Craft Co., Ltd., Grimsby, Ont.
 Standard Tube Co., Ltd., Woodstock, Ont.
 Canadian Office & School Furniture Co., Ltd., Preston, Ont.

METABOLISM APPARATUS

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Ingram & Bell, Ltd., Toronto.
 McKesson Appliances Co., Toledo, Ohio.

MATERNITY PADS

Herd & Charton, Inc., Montreal.
 Smith & Nephew, Ltd., Montreal.
 Johnson & Johnson, Montreal.
 Lewis Mfg. Co. of Canada, Ltd., Toronto.

MECHANOTHERAPY**Massage Applicators**

Burke Electric & X-Ray Co., Ltd., Toronto.
 Victor X-Ray Corporation of Canada, Ltd., Toronto.

MICROSCOPES AND ACCESSORIES

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 Denoyer-Geppert Co., Chicago.
 J. F. Hartz Co., Ltd., Toronto.
 Bausch & Lomb Optical Co., Rochester.
 Fisher Scientific Co., Ltd., Montreal.
 Hughes Owens Co., Ltd., Montreal.
 Spencer Lens Co., Buffalo.

MODELS, ANATOMICAL

Denoyer-Geppert Co., Chicago.
 Clay-Adams Co., Inc., New York.

MUSEUM JARS

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 Fisher Scientific Co., Ltd., Montreal.

OBSTETRICAL PHANTOMS

Denoyer-Geppert Co., Chicago.
 Clay-Adams Co., Inc., New York.

OXYGEN TENTS

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Nitrous Oxide Oxygen

Ethylene—Carbon Dioxide

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 ANAESTHETIC APPLIANCES

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 Herdt & Charton, Inc., Montreal.
 Lehn & Fink (Canada), Ltd., Toronto.
 Mallinckrodt Chemical Works, Ltd., Montreal.
 Merck & Co., Inc., Montreal.
 E. R. Squibb & Sons, Canada, Ltd., Toronto.
 Abbott Laboratories, Toronto.
 Arlington Chemical Co., Yonkers, N. Y.
 Bi Sol Dol Co., Windsor, Ont.
 Carter, Cummings & Co., Toronto.
 Chas. E. Frost & Co., Montreal.
 Frank W. Horner, Ltd., Montreal.
 Heath Products Corp., Toronto.
 Ingram & Bell, Ltd., Toronto.
 Lyman's, Limited, Montreal.
 H. K. Mulford Co., Philadelphia.
 National Drug & Chemical Co. of Canada, Ltd., Montreal.
 Parke, Davis & Co., Walkerville.
 Petrolagar Laboratories of Canada, Ltd., Windsor, Ont.
 Frederick Stearns & Co. of Canada, Ltd., Windsor.
 Henry K. Wampole & Co., Ltd., Perth.
 W. R. Warner & Co., Ltd., Toronto.
 Wingate Chemical Co., Ltd., Montreal.

PNEUMONIA TENTS

Cheney Chemicals, Ltd., Toronto.
 Foregger Co., Inc., New York.
 Oxygen Therapy Service, Inc., New York.

PREPARATIONS

For X-Ray Diagnosis

Merck & Co., Inc., Montreal.

QUARTZ LAMPS

Burke Electric & X-Ray Co., Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.

Please refer to THE CANADIAN HOSPITAL when writing

Chas. A. Branston Co., Toronto.
 Britesun, Inc., Chicago.
 Burdick Cabinet Co., Milton, Wis.
 General X-Ray Co., Boston.
 Hanovia Chemical & Mfg. Co., Newark, N.J.
 Ingram & Bell, Ltd., Toronto.
 Victor X-Ray Corporation of Canada, Ltd., Toronto.

RINGS AND PILLOWS, RUBBER

J. F. Hartz Co., Ltd., Toronto.
 Canadian Consolidated Rubber Co., Ltd., Montreal.
 Jem Rubber Co., Limited, Toronto.
 Seiberling Rubber Co. of Canada, Ltd., Toronto.
 Viceroy Mfg. Co., Ltd., Toronto.

SCALES

J. F. Hartz Co., Ltd., Toronto.
 Canadian Fairbanks-Morse Co., Ltd., Toronto.

SHEETING, RUBBER

Adams Furniture Co., Ltd., Toronto.
 Dunlop Tire & Rubber Co., Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Canadian Consolidated Rubber Co., Ltd., Montreal.
 North British Rubber Co., Ltd., Toronto.
 Ontario Rubber Co., Toronto.
 Textile Products Co., Toronto.

SHEETING, FABRIKOID

Can. Fabrikoid Co., Ltd., New Toronto.

SUGAR OF MILK

J. F. Hartz Co., Ltd., Toronto.
 Merck & Co., Inc., Montreal.

SKELETONS

Denoyer Geppert Co., Chicago.
 Clay-Adams Co., Inc., New York.

SPLINTS

De Puy Mfg. Co., Warsaw, Ind.

STAINS

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Fisher Scientific Co., Ltd., Montreal.

STEREOPTICONS

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Bausch & Lomb Optical Co., Rochester.
 Fisher Scientific Co., Ltd., Montreal.
 Hughes Owens Co., Ltd., Montreal.
 Spencer Lens Co., Buffalo.

STEREOSCOPES

Can. Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 Burke Electric & X-Ray Co., Ltd., Toronto.
 Fisher Scientific Co., Ltd., Montreal.
 Hughes Owens Co., Ltd., Montreal.
 Victor X-Ray Corporation, Toronto.

STERILIZERS

Adams Furniture Co., Ltd., Toronto.
 Canadian Laboratory Supplies, Ltd., Toronto.
 Castle, Wilmot Co., Rochester, N.Y.
 J. F. Hartz Co., Ltd., Toronto.
 Robt. Simpson Co., Ltd., Toronto.
 American Sterilizer Co., Erie, Pa.
 Barnstead Mfg. Co., Boston.
 Barnstead Still & Sterilizer Co., Inc., Boston.
 Scanlan-Morris Co., Madison, Wis.

STERILIZER CONTROLS

A. W. Diack, Detroit, Mich.

STETHOSCOPES

J. F. Hartz Co., Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.

STILLS

Canadian Laboratory Supplies Ltd., Toronto.

SUDIPHONES

Northern Electric Co., Ltd., Montreal.

SURGICAL AND MEDICAL SUPPLY DEALERS

J. F. Hartz Co., Ltd., Toronto.
 Herdt & Charton, Inc., Montreal.

Teaching Aids for Schools of Nursing

Dissectible Models,
 Charts, Skeletons, Dolls, Specimens, and Slides for
 Anatomy, Physiology, Dietetics, Obstetrics,
 Neurology, Embryology, Otolaryngology, etc.

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Publishers and Preparateurs for Schools of Nursing
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Casgrain & Charbonneau, Ltd., Montreal.
 Ingram & Bell, Ltd., Toronto.
 Lymans, Limited, Montreal.
 J. Stevens & Son Co., Ltd., Toronto.
 White X-Ray & Surgical Supply Co., Toronto.

SURGICAL PUMPS

J. F. Hartz Co., Ltd., Toronto.
 Casgrain & Charbonneau, Ltd., Montreal.
 McKesson Appliances Co., Toledo, Ohio.

SUTURES

Davis & Geck, Inc., Brooklyn, N.Y.
 J. F. Hartz Co., Ltd., Toronto.
 Herdt & Charton, Inc., Montreal.
 Johnson & Johnson, Ltd., Montreal.

SYRINGES

Glass

Canadian Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Herdt & Charton, Inc., Montreal.
 Fisher Scientific Co., Ltd., Montreal.
 Hughes Owens Co., Ltd., Montreal.

TABLES, OPERATING

Adams Furniture Co., Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Frank S. Betz Co., Hammond, Ind.
 Scanlan-Morris Co., Madison, Wis.

THERMOMETERS, CLINICAL

Can. Laboratory Supplies, Ltd., Toronto.
 Central Scientific Co. of Canada, Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Herdt & Charton, Inc., Montreal.
 Robert Simpson Co., Ltd., Toronto.
 Fisher Scientific Co., Ltd., Montreal.
 Hughes Owens Co., Ltd., Montreal.
 Taylor Instrument Co., Toronto.
 White X-Ray & Surgical Supply Co., Toronto.

WASTE RECEPTACLES

Dustbane Products, Ltd., Ottawa.
 J. F. Hartz Co., Ltd., Toronto.
 Metal Craft Co., Ltd., Grimsby, Ont.
 General Steel Wares, Ltd., London, Ont.
 Niagara Hy Tools, Ltd., Bridgeburg, Ont.
 Soclean, Limited, Toronto.

X-RAY APPARATUS

Burke Electric & X-Ray Co., Ltd., Toronto.
 Westinghouse X-Ray Co., Inc., Long Island City, N.Y.
 Kelley-Koett Mfg. Co., Inc., Covington, Ky.
 Victor X-Ray Corporation of Canada, Ltd., Toronto.

X-RAY FILM CABINETS

Burke Electric & X-Ray Co., Toronto.
 Office Specialty Mfg. Co., Ltd., Toronto.
 J. & J. Taylor, Ltd., Toronto.

X-RAY FILMS, PLATES

Burke Electric & X-Ray Co., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Victor X-Ray Corporation of Canada, Ltd., Toronto.
 Canadian Kodak Co., Ltd., Toronto.
 Gevaert Co. of America, Inc., Toronto.
 White X-Ray & Surgical Supply Co., Toronto.

X-RAY GLOVES AND APRONS

North British Rubber Co., Ltd., Toronto.

Please refer to THE CANADIAN HOSPITAL when writing

SECTION D

FOOD SERVICE EQUIPMENT AND SUPPLIES

ALUMINUM WARE

Super Health Aluminum Co., Ltd., Toronto.
Hospital & Kitchen Equipment Co., Ltd., Toronto.
Aluminum Ware Mfg. Co., Ltd., Oakville, Ont.
Aluminum Goods Limited, Toronto.
General Steel Wares, Ltd., Toronto.
Wrought Iron Range Co., Ltd., Toronto.

BREAD RACKS

Geo. R. Prowse Range Co., Ltd., Montreal.
Brantford Oven & Rack Co., Ltd., Brantford.
Regal Kitchens, Ltd., Montreal.
Wrought Iron Range Co., Ltd., Toronto.

BREAD AND MEAT SLICERS

Berkel Products Co., Ltd., Toronto.
Hobart Mfg. Co., Toronto.
Hospital & Kitchen Equipment Co., Ltd., Toronto.
Pendrieth Machinery Co., Ltd., Toronto.
Geo. R. Prowse Range Co., Ltd., Montreal.
A. J. Deere Co., Ltd., Toronto.
International Business Machines, Ltd., Toronto.

BUTCHER BLOCKS

Geo. R. Prowse Range Co., Ltd., Montreal.
General Steel Wares, Ltd., Toronto.
Toronto Butchers' Supply Co., Ltd., Toronto.
Wrought Iron Range Co., Ltd., Toronto.

CABINETS, FOOD

Hospital & Kitchen Equipment Co., Ltd., Toronto.
Metal Craft Co., Ltd., Grimsby, Ont.
Pendrieth Machinery Co., Ltd., Toronto.
Geo. R. Prowse Range Co., Ltd., Montreal.
Brantford Oven & Rack Co., Ltd., Brantford, Ont.
General Steel Wares, Ltd., Toronto.
Regal Kitchens, Ltd., Montreal.
Steel Equipment Co., Ltd., Ottawa.
Wrought Iron Range Co., Ltd., Toronto.

CAFETERIA FURNITURE

W. J. Craig, Toronto.
I. G. Pickering Co., Ltd., Toronto.

CANOPIES, HOODS

Hospital & Kitchen Equipment Co., Ltd., Toronto.
Metal Craft Co., Ltd., Grimsby, Ont.
Geo. R. Prowse Range Co., Ltd., Montreal.
Brantford Oven & Rack Co., Ltd., Brantford, Ont.
Gurney Foundry Co., Ltd., Toronto.
Regal Kitchens, Ltd., Montreal.
Wrought Iron Range Co., Ltd., Toronto.

CHOPPING MACHINES

Geo. R. Prowse Range Co., Ltd., Montreal.
Wrought Iron Range Co., Ltd., Toronto.

CHINA

Adams Furniture Co., Ltd., Toronto.
British & Colonial Trading Co., Ltd., Toronto.
Nerlich & Company, Toronto.
Robert Simpson Co., Ltd., Toronto.
Cassidy's, Ltd., Montreal.

CONVEYORS, FOOD

Metal Craft Co., Ltd., Grimsby, Ont.
Geo. R. Prowse Range Co., Ltd., Montreal.
Brantford Oven & Rack Co., Ltd., Brantford, Ont.
General Steel Wares, Ltd., Toronto.
Matthews Conveyor Co., Ltd., Port Hope.

COOKING UTENSILS

Geo. R. Prowse Range Co., Ltd., Montreal.
Super Health Aluminum Co., Ltd., Toronto.
Aluminum Goods Limited, Toronto.
Cassidy's, Ltd., Montreal.
Thos. Davidson Mfg. Co., Ltd., Montreal.
General Steel Wares, Ltd., Toronto.
Regal Kitchens, Ltd., Montreal.
Wrought Iron Range Co., Ltd., Toronto.

COOKS' CLOTHING

Corbett-Cowley, Ltd., Toronto.

CUTLERY

British & Colonial Trading Co., Ltd., Toronto.
McGlashan Clark Co., Ltd., Niagara Falls, Ont.
Geo. R. Prowse Range Co., Ltd., Montreal.
Nerlich & Co., Toronto.
Robert Simpson Co., Ltd., Toronto.
Canadian Wm. A. Rogers, Ltd., Toronto.
Cassidy's, Ltd., Montreal.
International Silver Co. of Canada, Ltd., Toronto.
Niagara Hy-Tools, Ltd., Bridgeburg, Ont.
Wm. Rogers Mfg. Co., Ltd., Niagara Falls, Ont.

DINING ROOM FURNITURE

North American Furniture Co., Ltd., Owen Sound, Ont.

DISHWASHING MACHINES

Crescent Div. Hobart Mfg. Co., Troy, Ohio.
Hospital & Kitchen Equipment Co., Ltd., Toronto.
Geo. R. Prowse Range Co., Ltd., Montreal.
London Metal Products, Ltd., London, Ont.
Wrought Iron Range Co., Ltd., Toronto.

DISHWASHING CLEANERS

Dustbane Products, Ltd., Ottawa.
Soclean, Ltd., Toronto.
Alpha Chemical Co., Ltd., Kitchener, Ont.
Cudahy Packing Company, Toronto.
Diamond Cleanser, Ltd., Toronto.
Gold Dust Corporation, Montreal.
Frank P. Lalonde Co., Montreal.
Lever Brothers, Ltd., Toronto.
Pugsley, Dingman & Co., Ltd., Toronto.
Royal Crown Soaps, Ltd., Winnipeg.
Standard Brands, Ltd., Toronto.

GLASS TUMBLERS, ETC.

British & Colonial Trading Co., Ltd., Toronto.
Nerlich & Co., Toronto.
Robert Simpson Co., Ltd., Toronto.
Cassidy's, Ltd., Montreal.
Dominion Glass Co., Ltd., Montreal.

KETTLES, STEAM-JACKETED

Super Health Aluminum Co., Ltd., Toronto.
Geo. R. Prowse Range Co., Ltd., Montreal.
Aluminum Goods Limited, Toronto.
Booth-Coulter Copper & Brass Co., Ltd., Toronto.
General Steel Wares, Ltd., Toronto.
Wrought Iron Range Co., Ltd., Toronto.

MIXING MACHINES

Hobart Mfg. Co., Toronto.
Hospital & Kitchen Equipment Co., Ltd., Toronto.
Pendrieth Machinery Co., Ltd., Toronto.
Geo. R. Prowse Range Co., Ltd., Montreal.
Fletcher Mfg. Co., Ltd., Toronto.
Northern Electric Co., Ltd., Toronto.
Regal Kitchens, Ltd., Montreal.
Wrought Iron Range Co., Ltd., Toronto.

OVENS, BAKING

Hamilton Oven Works, Hamilton, Ont.
 Pendrith Machinery Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Brantford Oven & Rack Co., Ltd., Brantford, Ont.
 Fletcher Mfg. Co., Ltd., Toronto.
 Gurney Foundry Co., Ltd., Toronto.
 Hubbard Portable Oven Co. of Canada, Ltd., Toronto.
 Moffats, Ltd., Weston, Ont.
 Regal Kitchens, Ltd., Montreal.
 Wrought Iron Range Co., Ltd., Toronto.

PAPER GOODS

See firms listed under Paper Goods in Section B.

POTATO PEELING MACHINES

Hobart Mfg. Co., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Berkel Products Co., Ltd., Toronto.
 Regal Kitchens, Ltd., Montreal.
 Wrought Iron Range Co., Ltd., Toronto.

RANGES**Electric**

Pendrith Machy. Co., Ltd., Toronto.
 Beach Foundry, Ltd., Ottawa.
 Canadian General Electric Co., Ltd., Toronto.
 Canadian Westinghouse Co., Ltd., Hamilton, Ont.
 General Steel Wares, Ltd., Toronto.
 Moffats, Ltd., Weston, Ont.
 Northern Electric Co., Ltd., Montreal.

**HOSPITAL AND INSTITUTIONAL
 Crockery, Silver and Glassware**

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JOHN MADDOCK & SONS, LTD., ENGLAND

We specialize in Institutional Equipment and
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 on any of the above lines you may require?

**BRITISH & COLONIAL TRADING CO.
 LIMITED**

284-6 Brock Avenue - TORONTO

**GEO. R. PROWSE RANGE CO.
 LIMITED**

**High-Grade Kitchen Equipment
 for Hospitals, etc.**

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**SUPER
 THERMOS
 Bedside Set**

**for every
 Institution**

Complete
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 on request



THERMOS BOTTLE CO., Limited
 1239 WEST QUEEN STREET, TORONTO 3, ONT.

Gas

Pendrith Machinery Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Beach Foundry, Ltd., Ottawa.
 Consumers' Gas Co., Toronto.
 General Steel Wares, Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

Heavy Duty

Pendrith Machinery Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Canadian General Electric Co., Ltd., Toronto.
 General Steel Wares, Ltd., Toronto.
 Regal Kitchens, Ltd., Montreal.
 Wrought Iron Range Co., Ltd., Toronto.

REFRIGERATORS

Adams Furniture Co., Ltd., Toronto.
 Robert Simpson Co., Ltd., Toronto.
 Canadian Jewett Refrigerator Co., Ltd., Bridgeburg, Ont.
 Can. General Electric Co., Ltd., Toronto.
 T. Eaton Co., Ltd., Toronto.
 Eureka Refrigerator Co., Ltd., Owen Sound, Ont.
 General Steel Wares, Ltd., Toronto.
 Linde Canadian Refrigerator Co., Ltd., Montreal.
 Renfrew Refrigerator Co., Ltd., Renfrew, Ont.
 Sanderson-Harold Co., Ltd., Paris, Ont.

REFRIGERATING MACHINERY

Canadian Ice Machine Co., Ltd., Toronto.
 Frigidaire Corp'n., Toronto.
 Kelvinator of Canada, Ltd., Toronto.
 J. L. Wilson & Sons, Ltd., Toronto.
 Can. General Electric Co., Ltd., Toronto.
 Linde Canadian Refrigerator Co., Ltd., Montreal.

SCALES, KITCHEN

Geo. R. Prowse Range Co., Ltd., Montreal.
 Canadian Fairbanks-Morse Co., Ltd., Montreal.
 Canadian Toledo Scale Co., Ltd., Windsor, Ont.
 General Steel Wares, Ltd., Toronto.
 Gurney Scale Co., Ltd., Hamilton.
 International Business Machines Co., Ltd., Toronto.
 Wilson Scale & Machinery Corp'n., Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

SLICERS

See Firms listed under Bread and Meat Slicers
 in this Section.

SILVER**Hollow and Flatware**

Benedict Proctor Mfg. Co., Ltd., Trenton, Ont.
 British & Colonial Trading Co., Ltd., Toronto.
 Neriich & Co., Toronto.

SINKS

Hospital & Kitchen Equipment Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Crane, Ltd., Montreal.
 General Steel Wares, Ltd., Toronto.
 James Robertson Co., Ltd., Montreal.
 Standard Sanitary Mfg. Co., Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

TABLES, BAKERS'

Pendrith Machinery Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Brantford Oven & Rack Co., Ltd., Brantford, Ont.
 General Steel Wares, Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

TABLES, STEAM

Hospital & Kitchen Equipment Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 General Steel Wares, Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

TOASTERS, ELECTRIC

Geo. R. Prowse Range Co., Ltd., Montreal.
 Canadian General Electric Co., Ltd., Toronto.
 Canadian Radiant Electric Co., Grimsby, Ont.
 Canadian Westinghouse Co., Ltd., Hamilton, Ont.
 Equator Mfg. Co., Ltd., Hamilton.
 National Electric Heating Co., Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.
 Renfrew Electric Products, Ltd., Grimsby, Ont.

TOPS, TABLE**Vitrified**

I. G. Pickering Co., Ltd., Toronto.
 Sani-Products Co., Ltd., Toronto.
 Vitrolite Company, Toronto.

Please refer to THE CANADIAN HOSPITAL when writing

Monel Metal

Hospital & Kitchen Equipment Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Brantford Oven & Rack Co., Ltd., Brantford, Ont.
 General Steel Wares, Ltd., Toronto.
 International Nickel Co., New York.
 Regal Kitchens, Ltd., Montreal.
 Wrought Iron Range Co., Ltd., Toronto.

Stainless Steel

Thos. Firth & Son, Ltd., Montreal.

TRAYS

Benedict-Proctor Mfg. Co., Ltd., Trenton, Ont.
 British & Colonial Trading Co., Ltd., Toronto.
 Metal Craft Co., Ltd., Grimsby, Ont.
 Nerlich & Co., Toronto.
 North American Furniture Co., Ltd., Owen Sound, Ont.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Aluminum Goods Limited, Toronto.
 Canadian Westinghouse Co., Ltd., Hamilton, Ont.
 Cassidy's, Ltd., Montreal and Toronto.
 General Steel Wares, Ltd., Toronto.
 Malcolm & Souter Furniture Co., Ltd., Hamilton.
 Otterville Mfg. Co., Ltd., Otterville, Ont.
 Wrought Iron Range Co., Ltd., Toronto.

URNS

Geo. R. Prowse Range Co., Ltd., Montreal.
 Booth-Coulter Copper & Brass Co., Ltd., Toronto.
 Cassidy's, Ltd., Montreal.
 General Steel Wares, Ltd., Toronto.
 Gurney Foundry Co., Ltd., Toronto.
 Regal Kitchens, Ltd., Montreal.
 Wrought Iron Range Co., Ltd., Toronto.

UTENSILS, BAKING AND COOKING

Pendrith Machinery Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Aluminum Goods Limited, Toronto.
 Brantford Oven & Rack Co., Ltd., Brantford, Ont.
 Cassidy's, Ltd., Montreal and Toronto.
 General Steel Wares, Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

VACUUM BOTTLES

Geo. R. Prowse Range Co., Ltd., Montreal.
 Thermos Bottle Co., Ltd., Toronto.
 Cassidy's, Ltd., Montreal and Toronto.

WARMERS**Dish and Food**

Hospital & Kitchen Equipment Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 Brantford Oven & Rack Co., Ltd., Brantford, Ont.
 General Steel Wares, Ltd., Toronto.
 Gurney Foundry Co., Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

WATER COOLERS

General Steel Wares, Ltd., Toronto.
 Hospital & Kitchen Equipment Co., Ltd., Toronto.
 Geo. R. Prowse Range Co., Ltd., Montreal.
 G. H. Wood & Company, Ltd., Toronto.
 Thos. Davidson Mfg. Co., Ltd., Montreal.
 Perfection Cooler Co., Ltd., Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

The Hospital Building Programme

(Continued from page 46)

- Residence under construction with accommodation for 124 beds. Cost \$375,000.
- Crippled Children's Hospital, containing 50 beds, to be built in Vancouver to replace existing institution at Marpole.
- Mount Hamilton Hospital, Hamilton, Ont. Unit for chronic and incurable cases advocated.
- Wetaskiwin City Hospital, Wetaskiwin, Alta. New hospital to replace existing institution under construction.
- Mountain Sanatorium, Hamilton, Ont. 100-bed pavilion and nurses' residence proposed.
- Queen Alexandra Sanatorium, London, Ont. Building program costing approximately \$175,000 proposed, to

include 150-bed pavilion, addition to nurses' home, extensions to heating and laundry plants and renovations to reception hospital.

Montreal Convalescent Home, under construction. To cost \$300,000.

Freeport Sanatorium, Freeport, Ont. Will add 40 beds at cost of \$100,000.

Ottawa, Port Arthur, Fort William and Windsor interested in the offer of the Ontario Government to assist in extensions to sanatoria facilities.

St. Peter's Infirmary, Hamilton, Ont. 23-bed wing under construction.

Montreal General Hospital, Montreal, P.Q. Private patients' pavilion under construction, to cost \$1,000,000. 104 beds and complete services and equipment.

Hotel Dieu Hospital, Valleyfield, P.Q. Building programme under direction of Sisters of Providence, Montreal, P.Q.

Oshawa General Hospital, Oshawa, Ont. Planning a \$40,000 wing.

Children's Hospital, Winnipeg, Man. Contract placed for wing costing \$40,000, exclusive of equipment.

Falconwood Hospital, Charlottetown, P.E.I. It is expected that a new institution costing in excess of \$250,000 will be built to replace hospital recently burned.

Jordan Memorial Sanatorium, River Glade, N.B. Recently burned buildings will probably be replaced.

Misericordia Hospital, Haileybury, Ont. 50-bed addition preparatory to converting present hospital into a tubercular sanatorium. Cost of building and equipment \$100,000.

Montreal Children's Hospital, Montreal, P.Q. To build new wing in summer of 1932.

Bavarian China Hotelware Carried in Stock by Nerlich & Co.

For the first time in Canada, Bavarian china hotelware is now carried in stock by Nerlich & Co., Toronto, in the newest shapes and decorations. This is the same high grade dinnerware that is used by the best hotels, hospitals and institutions in Europe.

What appeals to the users of this class of ware is that it is absolutely vitrified, has a beautiful glaze and if chipped or cracked will not absorb liquids, but will always look white, even where chipped. It will also resist exceptional abuse without breakage. There is positively nothing better in hotelware made.

The decorations are particularly attractive for hospital use; "Aragon," a beautiful coloured border pattern broken by fruit and flowers in cluster, is on the glaze. The other decoration, "Etruscan," is a pleasing conventional design of light and dark blue colours under the glaze.

Nerlich & Co., carry a complete stock in both these decorations of all pieces required for up-to-date hospital or institutional service. When extra quantities are required unexpectedly, stock can be supplied on short notice.

Nerlich & Co. are also equipped to handle hospital requirements in table cutlery, silver plated hotelware, glass tumblers, water jugs and all table service.

SECTION E

FOODS and BEVERAGES

APPLES, CANNED

Canadian Cannery, Ltd., Hamilton.
Harvest Co., Ltd., Hamilton.
Libby, McNeill & Libby of Canada, Ltd., Chatham, Ont.
Okanagan Packers, Ltd., Kelowna, B.C.
Vineland Cannery, Ltd., Vineland Station, Ont.

APRICOTS, CANNED

Canadian Cannery, Ltd., Hamilton.
Libby, McNeill & Libby of Canada, Ltd., Chatham, Ont.

BAKING POWDER

R. B. Hayhoe & Co., Toronto.
Dalton Bros., Ltd., Toronto.
Egg-O Baking Powder Co., Ltd., Hamilton.
MacLarens, Ltd., Hamilton.
Ocean Mills, Ltd., Montreal.
Pure Gold Mfg. Co., Ltd., Toronto.
Standard Brands, Ltd., Toronto.

BEEF EXTRACTS

Bovril, Ltd., Montreal.
Joseph Picard, Montreal.

BEVERAGES

Vi-Tone Co., Hamilton.
Canada Biscuit Co., Ltd., Toronto.
Canada Bread Co., Ltd., Toronto.
David & Frere, Montreal.
Harry Horne Co., Ltd., Toronto.
Moirs, Ltd., Halifax.
National Biscuit Co. (Canada), Ltd., Toronto.
Geo. Weston, Ltd., Toronto.

BRAN

Kellogg Co. of Canada, Ltd., London, Ont.
Canadian Postum Cereal Co., Ltd., Toronto.
Good Health Food Co., Ltd., London, Ont.

BREAKFAST FOODS

Kellogg Co. of Canada, Ltd., London, Ont.
Canadian Postum Cereal Co., Ltd., Toronto.
Canadian Shredded Wheat Co., Ltd., Niagara Falls, Ont.
Quaker Oats Company, Peterborough, Ont.
Robin Hood Mills, Ltd., Calgary.

BUTTER

Bowes Co., Ltd., Toronto.
City Dairy Co., Ltd., Toronto.
Wm. Davies Co., Ltd., Toronto.
Harris Abattoir Co., Ltd., Toronto.
Montreal Dairy Co., Ltd., Montreal.
Swift Canadian Co., Ltd., Toronto.
Whyte Packing Co., Ltd., Stratford, Ont.

CEREALS

See Firms listed under Breakfast Foods.

CHOCOLATE

Walter Baker & Co., Ltd., Montreal.
J. S. Fry & Sons (Canada), Ltd., Montreal.
Walter M. Lowney Co. of Canada, Ltd., Montreal.
Rowntree Co., Ltd., Toronto.
Todhunter, Mitchell & Co., Toronto.

COCOA

See Firms listed under Chocolate.

COCOANUT

Canadian Coconut Co., Montreal.
Leopold Schepp Co., Toronto.
Pilliner Products, Ltd., Waterloo, Ont.

COFFEE

R. B. Hayhoe & Co., Toronto.
Chase & Sanborn, Montreal.
Dalton Bros., Ltd., Toronto.
Gorman Eckhart & Co., Ltd., London, Ont.
MacLarens, Ltd., Hamilton.
W. G. Patrick & Co., Ltd., Toronto.
Pure Gold Mfg. Co., Ltd., Toronto.

CORN SYRUPS

Canada Starch Co., Ltd., Montreal.
St. Lawrence Starch Co., Ltd., Port Credit, Ont.
Dalton Bros., Ltd., Toronto.

DESSERTS

R. B. Hayhoe & Co., Toronto.
Gorman Eckhart & Co., Ltd., London, Ont.
Harry Horne Co., Ltd., Toronto.
Imperial Extract Co., Ltd., Toronto.
Jell-O Co. of Canada, Ltd., Bridgeburg, Ont.
J. M. Lowes Co. of Toronto, Ltd., Toronto.
MacLarens, Ltd., Hamilton.
W. G. Patrick & Co., Ltd., Toronto.
Pure Gold Mfg. Co., Ltd., Toronto.

DIABETIC FLOUR

Jireh Food Co., Brockville, Ont.
MacDowell Brothers, Brockville, Ont.

EGGS, FROZEN

Canadian Milk Products Ltd., Toronto.
H. J. Keith Co., Winnipeg.

FLAVOURING EXTRACTS

See Firms listed under Desserts.

FLOUR**Barley**

F. L. Green, Greenwood, Ont.
Vancouver Milling & Grain Co., Ltd., Vancouver.

Diabetic—See under Diabetic Flour.**Gluten**

Jireh Food Co., Brockville, Ont.
MacDowell Brothers, Brockville, Ont.

Wheat

Maple Leaf Milling Co., Ltd., Toronto.
Ogilvie Flour Mills Co., Ltd., Montreal.
Robin Hood Mills, Ltd., Calgary.
St. Lawrence Flour Mills Co., Ltd., Montreal.
Western Canada Flour Mills Co., Ltd., Toronto.

Whole Wheat

Western Canada Flour Mills Co., Ltd., Toronto.
Winkler Milling Co., Winkler, Man.

FRUITS, CANNED

Acadia Cannery, Ltd., Kingston Station, N.S.
British Columbia Fruit Growers' Co., Ltd., Mission City, B.C.
Canadian Cannery, Ltd., Hamilton.
Harvest Co., Ltd., Hamilton.
Old City Mfg. Co., Ltd., Quebec, Que.
Vineland Cannery, Ltd., Vineland Station, Ont.

GINGER ALE**Also Ginger Beer, etc.**

Canada Dry Ginger Ale, Ltd., Toronto.
 Caledonia Springs Co., Ltd., Montreal.
 Coca-Cola Co. of Canada, Ltd., Toronto.
 Douglas & King, Ltd., Edmonton, Alta.
 Chas. E. Hires, Toronto.
 O'Keefe's Beverages, Ltd., Toronto.
 Orange Crush, Ltd., Toronto.
 Whistle Bottling Co. of Toronto, Ltd., Toronto.

GRAPE JUICE

Marsh Grape Juice Co., Niagara Falls, Ont.
 E. D. Smith & Sons, Ltd., Winona, Ont.
 Welch Co., Ltd., St. Catharines, Ont.

HONEY

Ontario Honey Producers' Co-operative, Ltd., Toronto.

INFANT FOODS

Canada Starch Co., Ltd., Montreal.
 Canadian Milk Products Co., Ltd., Toronto.
 St. Lawrence Starch Co., Ltd., Port Credit, Ont.
 Allen & Hanbury's Co., Ltd., Toronto.
 Mead, Johnson & Co., Ltd., Belleville, Ont.
 Nestles Food Co. of Canada, Ltd., Toronto.

JAMS AND JELLIES

Bowes Co., Ltd., Toronto.
 Canadian Cannery, Ltd., Hamilton.
 Dominion Preserving Co., Ltd., Montreal.
 Glassco, Ltd., Oakville, Ont.
 Harry Horne Co., Ltd., Toronto.
 Old City Mfg. Co., Ltd., Quebec.
 E. D. Smith & Sons, Ltd., Winona, Ont.
 St. Williams Preserves, Ltd., Simcoe, Ont.
 Wagstaffe, Ltd., Hamilton.
 J. H. Wethey, Ltd., St. Catharines, Ont.

JUNKET

The Junket Folks, Toronto.

MILK, CONDENSED

Canadian Milk Products, Ltd., Toronto.
 Borden Co., Ltd., Montreal.
 Carnation Milk Products Co., Ltd., Aylmer, Ont.
 Dominion Milk Corp'n., Ltd., Toronto.
 Nestles Food Co. of Canada, Ltd., Toronto.

OILS**Cooking and Salad**

Canada Starch Co., Ltd., Montreal.
 St. Lawrence Starch Co., Ltd., Port Credit, Ont.

OLIVE OIL

W. G. Patrick Co., Ltd., Toronto.
 Gorman Eckhart & Co., Ltd., London, Ont.
 H. J. Heinz Co., Toronto.

ORANGES

California Fruit Growers' Exchange, Toronto.

PICKLES

Wm. Davies Co., Ltd., Toronto.
 Grimsby Pickle Co., Ltd., Grimsby, Ont.
 H. J. Heinz Co., Toronto.
 Libby, McNeill & Libby of Canada, Ltd., Chatham, Ont.
 White Star Mfg. Co., Ltd., Winnipeg.

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Campbell Soup Co., Ltd., New Toronto.
 Canadian Cannery, Ltd., Hamilton.
 W. Clark, Montreal.
 H. J. Heinz Co., Toronto.

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 St. Lawrence Starch Co., Ltd., Port Credit, Ont.

Maple

Beaver Maple Products, Ltd., Whitby, Ont.
 Bowes Co., Ltd., Toronto.
 Canadian Maple Products, Ltd., Toronto.
 L. L. Jenne Maple Syrup & Sugar Co., Ltd., Sutton, Que.
 Maple Tree Products Association, Ltd., Montreal.
 Quebec Preserving, Ltd., Quebec.

TEA

R. B. Hayhoe & Co., Toronto.
 Chase & Sanborn, Ltd., Quebec.
 Dalton Brothers, Ltd., Toronto.
 T. H. Estabrooks Co., Ltd., St. John, N.B.
 Salada Tea Co. of Canada Ltd., Toronto.
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Laundry Equipment and Supplies

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 Brunner, Mond Canada, Ltd., Montreal.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 J. B. Ford Co., Wyandotte, Mich.
 Meyer Bros. Laundry Machinery Co., Toronto.

AMMONIA

Beaver Laundry Machinery Co., Ltd., Toronto.
 Alpha Chemical Co., Ltd., Kitchener, Ont.
 Canada Colors & Chemicals, Ltd., Toronto.
 S. F. Lawrason & Co., London.
 Pugsley, Dingman & Co., Ltd., Toronto.

BASKETS, LAUNDRY

Beaver Laundry Machinery Co., Ltd., Toronto.
 Pendrith Machinery Co., Ltd., Toronto.
 Beatty Bros., Ltd., Fergus, Ont.
 Brantford Willow Works, Brantford, Ont.
 Canadian National Institute for the Blind, Toronto.
 Willow Art Furniture Mfrs., Winnipeg.

BINS, SORTING

Beaver Laundry Machinery Co., Ltd., Toronto.
 Dennistell Ltd., London, Ont.
 Metal Craft Co., Ltd., Grimsby, Ont.
 Steel Equipment Co., Ottawa.

BLEACH, LAUNDRY

Beaver Laundry Machinery Co., Ltd., Toronto.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 Canadian Salt Co., Ltd., Windsor.

CAUSTIC SODA

Beaver Laundry Machinery Co., Ltd., Toronto.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 Canadian Salt Co., Ltd., Windsor, Ont.
 J. B. Ford Co., Wyandotte, Mich.
 Howard Smith Paper Mills, Ltd., Montreal.
 Meyer Bros. Laundry Machinery Co., Toronto.

DETERGENTS

Beaver Laundry Machinery Co., Ltd., Toronto.
 Dustbane Products, Ltd., Ottawa.
 Alpha Chemical Co., Ltd., Kitchener, Ont.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 J. B. Ford Co., Wyandotte, Mich.
 Meyer Bros. Laundry Machinery Co., Toronto.
 Soclean, Limited, Toronto.

DRYERS

Beaver Laundry Machinery Co., Ltd., Toronto.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 Meyer Bros. Laundry Machinery Co., Toronto.
 Premier Laundry Machinery Co., Ltd., Montreal.
 Sumbling Machinery Co., Ltd., Toronto.

ELECTRIC IRONS

Canadian General Electric Co., Ltd., Toronto.
 Canadian Radiant Electric Co., Grimsby, Ont.
 Canadian Westinghouse Co., Ltd., Hamilton.
 National Electric Heating Co., Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.

EXTRACTORS

Beaver Laundry Machinery Co., Ltd., Toronto.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 Meyer Bros. Laundry Machinery Co., Toronto.
 Premier Laundry Machinery Co., Ltd., Montreal.
 Sumbling Machinery Co., Ltd., Toronto.

HEATERS, WATER

Canadian Heater Co., Hamilton.
 Clare Bros. & Co., Ltd., Preston, Ont.
 Darling Bros., Ltd., Montreal.
 Jas. Morrison Brass Mfg. Co., Ltd., Toronto.
 Mueller, Ltd., Sarnia, Ont.
 Northern Electric Co., Ltd., Montreal.
 Ruud Mfg. Co., Toronto.

INDELIBLE INK

Beaver Laundry Machinery Co., Ltd., Toronto.
 Applegate Chemical Co., Chicago.
 Meyer Bros. Laundry Machinery Co., Ltd., Toronto.
 National Marking Machinery Co., Cincinnati.
 Payson's Indelible Ink Co., Northampton, Mass.

IRONING MACHINES

Beaver Laundry Machinery Co., Ltd., Toronto.
 Brantford Washing Machine Co., Ltd., Brantford, Ont.
 Canadian Ironing Machine Co., Ltd., Woodstock, Ont.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 Meyer Bros. Laundry Machinery Co., Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.
 Premier Laundry Machinery Co., Ltd., Montreal.
 Sumbling Machinery Co., Ltd., Toronto.
 Thor-Canadian Co., Ltd., Toronto.

SOAPS, LAUNDRY

Beaver Soap Co., Ltd., Winnipeg.
 Dustbane Products, Ltd., Ottawa.
 Colgate, Palmolive, Peet Co., Ltd., Toronto.
 Cudahy Packing Co., Toronto.
 Gold Dust Corporation, Ltd., Montreal.
 Lever Bros., Ltd., Toronto.
 Proctor & Gamble Co. of Canada, Ltd., Toronto.
 Pugsley, Dingman & Co., Ltd., Toronto.
 Soclean Limited, Toronto.
 St. Croix Soap Mfg. Co., Ltd., St. Stephen, N.B.

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Beaver Laundry Machinery Co., Ltd., Toronto.
 Canada Starch Co., Ltd., Montreal.
 St. Lawrence Starch Co., Ltd., Port Credit, Ont.
 Pacific Starch Products, Ltd., New Westminster, B.C.

TABLES, IRONING

Beaver Laundry Machinery Co., Ltd., Toronto.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 Meyer Bros. Laundry Machinery Co., Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.
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Colson Co., Elyria, Ohio.
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WASHERS

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 Canadian Hoffman Machinery Co., Ltd., Toronto.
 Canadian Ironing Machine Co., Ltd., Woodstock, Ont.
 Canadian Laundry Machinery Co., Ltd., Toronto.
 Meyer Bros. Laundry Machinery Co., Ltd., Toronto.
 Northern Electric Co., Ltd., Montreal.
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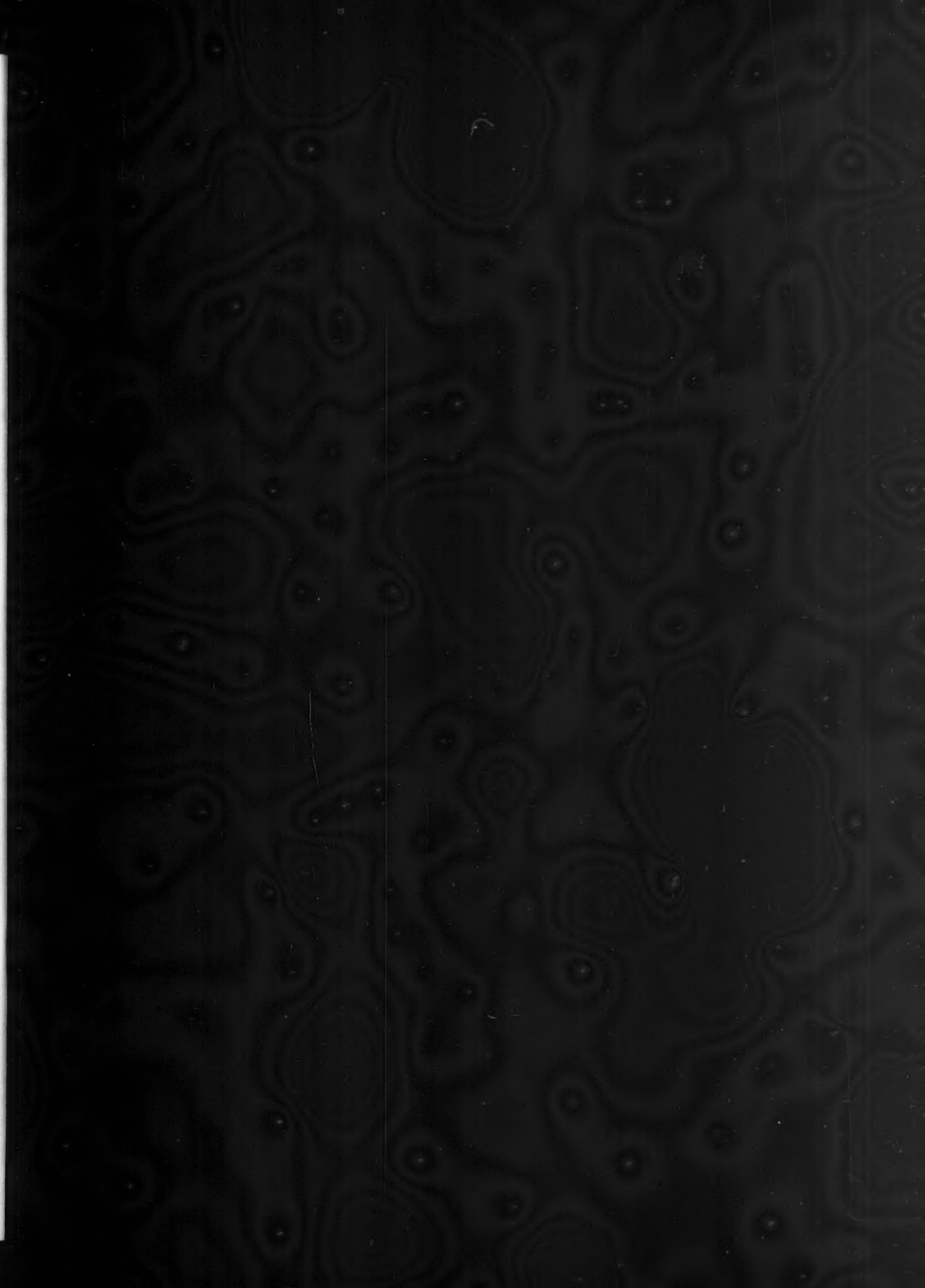
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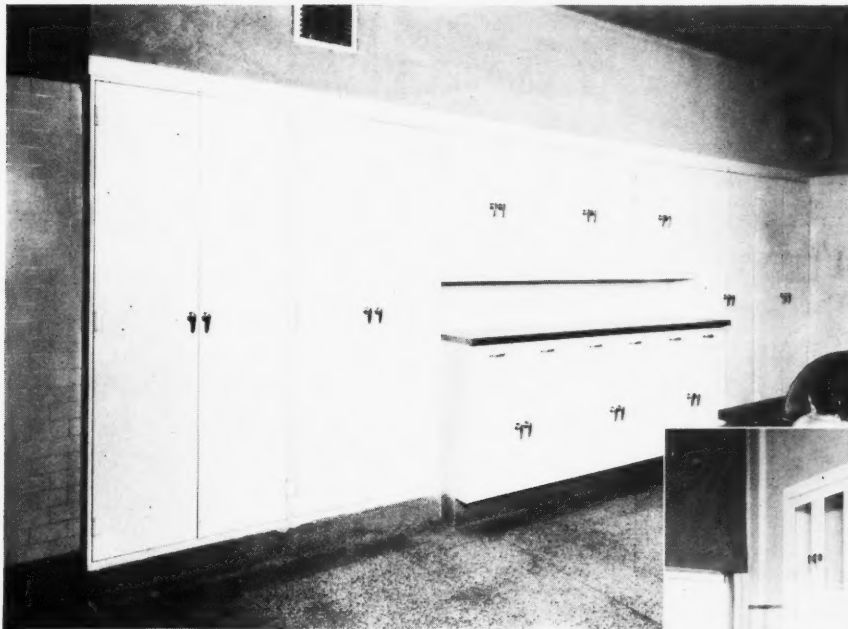
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